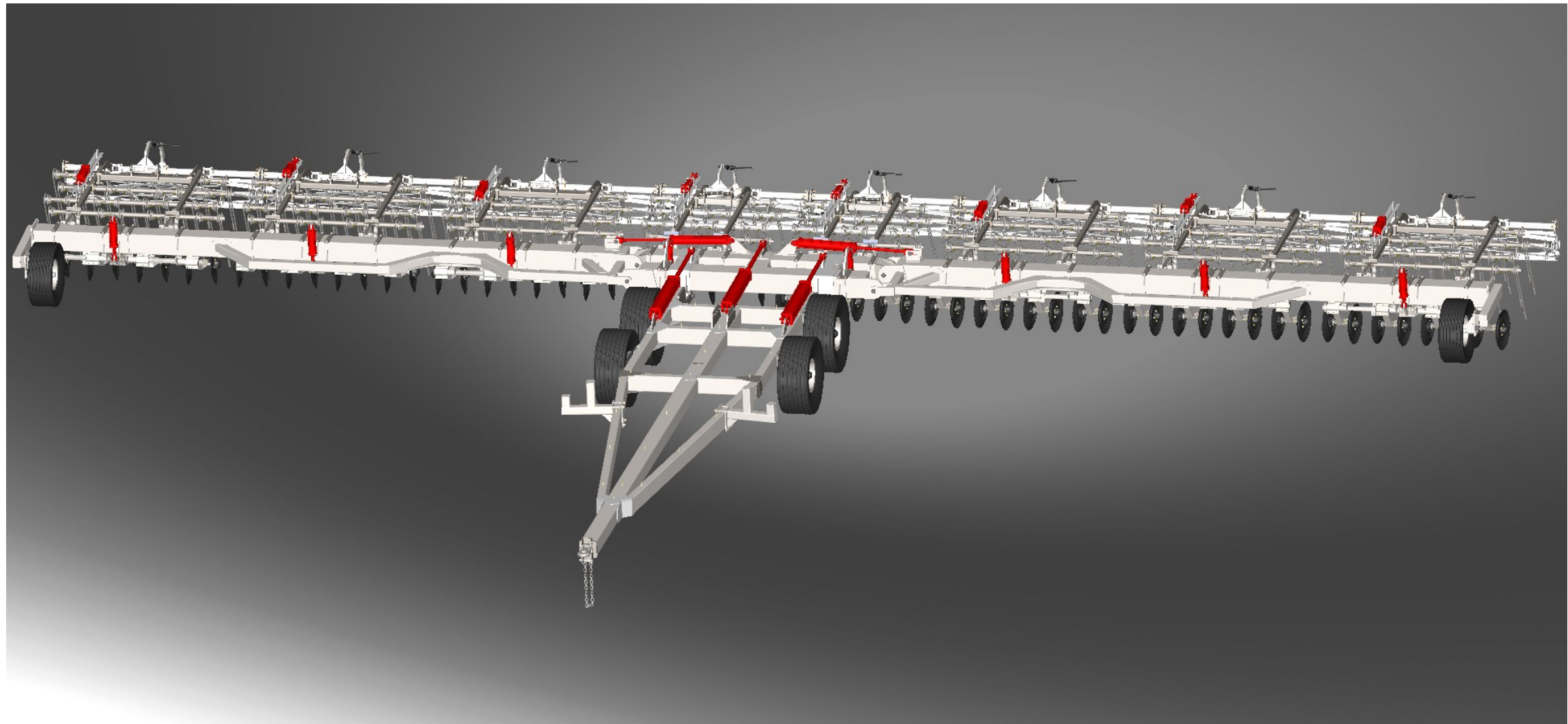




Forward Fold Coulter Harrow



Parts Book

Table of Contents

Coulter Arms

6 Bolt Double Coulter Arm.....

Eldale Double End Coulter Spindle

3

4

Wheel Hubs

Wheel and Hub Locations.....

Wheel Hub 8000

Wheel Hub 3500

5

6

7

Cylinder Locations.....

8

Pins.....

9

Gangs

6 Foot Gang

8 Foot Gang

10 Foot Gang

10

11

12

Drawbar Sections

6 Foot Sections

6 Foot 4 Bar Manual Tine Adjust.

6 Foot 4 Bar Hydraulic Tine Adjust

6 Foot 5 Bar Manual Tine Adjust

6 Foot 5 Bar Hydraulic Tine Adjust

13

14

15

16

8 Foot Sections

8 Foot 4 Bar Manual Tine Adjust

8 Foot 4 Bar Hydraulic Tine Adjust

8 Foot 5 Bar Manual Tine Adjust

8 Foot 5 Bar Hydraulic Tine Adjust

17

18

19

20

10 Foot Sections

10 Foot 4 Bar Manual Tine Adjust

10 Foot 4 Bar Hydraulic Tine Adjust

10 Foot 5 Bar Manual Tine Adjust

10 Foot 5 Bar Hydraulic Tine Adjust

21

22

23

24

Stabilizer Bars

5/8” Bolt Mount w/Rolling Baskets.....

5/8” Bolt Mount without Rolling Baskets.....

U-Bolt Mount.....

25

26

27

Baskets

Mounting Parts

Hardware

Eldale Coulter Hub & Single End Spindle.....

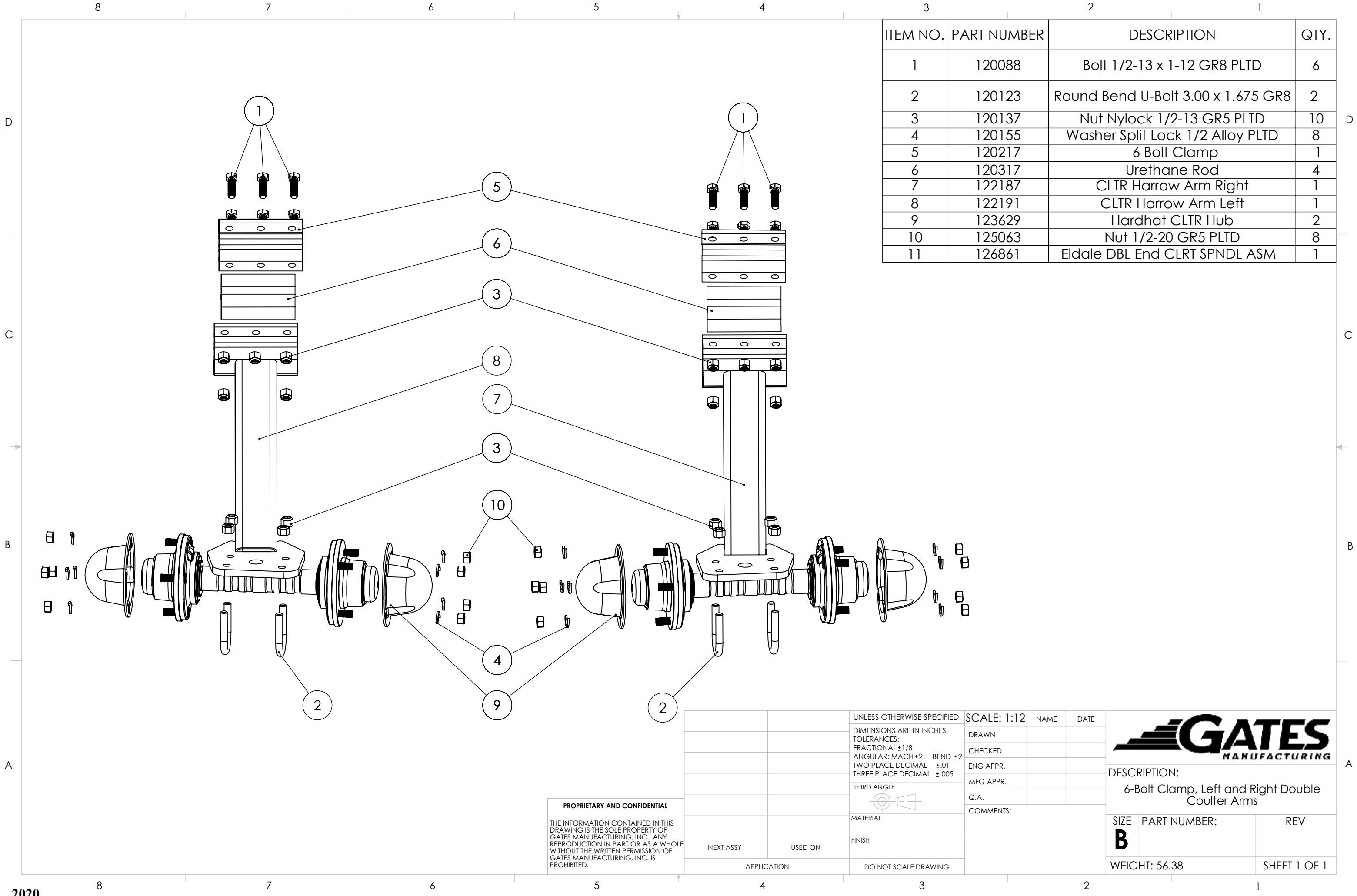
28

29

30

Blades.....

31



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120088	Bolt 1/2-13 x 1-12 GR8 PLTD	6
2	120123	Round Bend U-Bolt 3.00 x 1.675 GR8	2
3	120137	Nut Nylock 1/2-13 GR5 PLTD	10
4	120155	Washer Split Lock 1/2 Alloy PLTD	8
5	120217	6 Bolt Clamp	1
6	120317	Urethane Rod	4
7	122187	CLTR Harrow Arm Right	1
8	122191	CLTR Harrow Arm Left	1
9	123629	Hardhat CLTR Hub	2
10	125063	Nut 1/2-20 GR5 PLTD	8
11	126861	Eldale DBL End CLRT SPNDL ASM	1

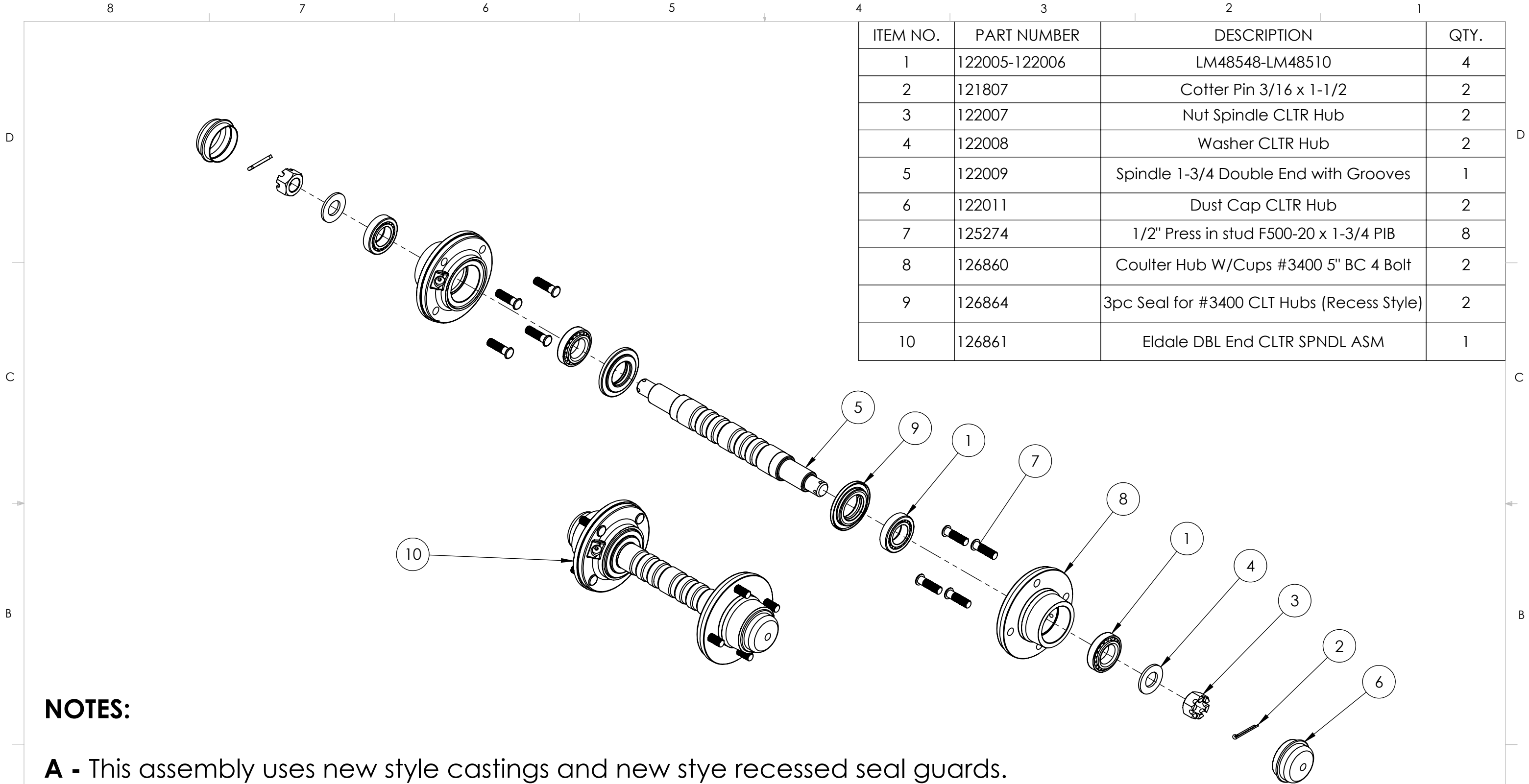
PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

UNLESS OTHERWISE SPECIFIED:		SCALE: 1:12	NAME	DATE
DIMENSIONS ARE IN INCHES		DRAWN		
TOLERANCES:		CHECKED		
FRACTIONAL $\pm 1/8$		ENG APPR.		
ANGULAR: MACH ± 2 BEND ± 2		MFG APPR.		
TWO PLACE DECIMAL $\pm .01$		Q.A.		
THREE PLACE DECIMAL $\pm .005$		COMMENTS:		
THIRD ANGLE				
MATERIAL				
FINISH				
NEXT ASSY	USED ON			
APPLICATION		DO NOT SCALE DRAWING		

DESCRIPTION:
6-Bolt Clamp, Left and Right Double Coulter Arms

SIZE B	PART NUMBER:	REV
WEIGHT: 56.38		SHEET 1 OF 1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	122005-122006	LM48548-LM48510	4
2	121807	Cotter Pin 3/16 x 1-1/2	2
3	122007	Nut Spindle CLTR Hub	2
4	122008	Washer CLTR Hub	2
5	122009	Spindle 1-3/4 Double End with Grooves	1
6	122011	Dust Cap CLTR Hub	2
7	125274	1/2" Press in stud F500-20 x 1-3/4 PIB	8
8	126860	Coulter Hub W/Cups #3400 5" BC 4 Bolt	2
9	126864	3pc Seal for #3400 CLT Hubs (Recess Style)	2
10	126861	Eldale DBL End CLTR SPNDL ASM	1

NOTES:

A - This assembly uses new style castings and new stye recessed seal guards.

B - This is a replacement assembly for 121453.
Verify hub style before ordering parts.

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		SCALE: 1:6	NAME	DATE
		DIMENSIONS ARE IN INCHES		DRAWN	Scott	7/23/2013
		TOLERANCES:		CHECKED		
		FRACTIONAL ±1/8		ENG APPR.		
		ANGULAR: MACH ±2 BEND ±2		MFG APPR.		
		TWO PLACE DECIMAL ±.01		Q.A.		
		THREE PLACE DECIMAL ±.005		COMMENTS:		
		THIRD ANGLE				
		MATERIAL				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				

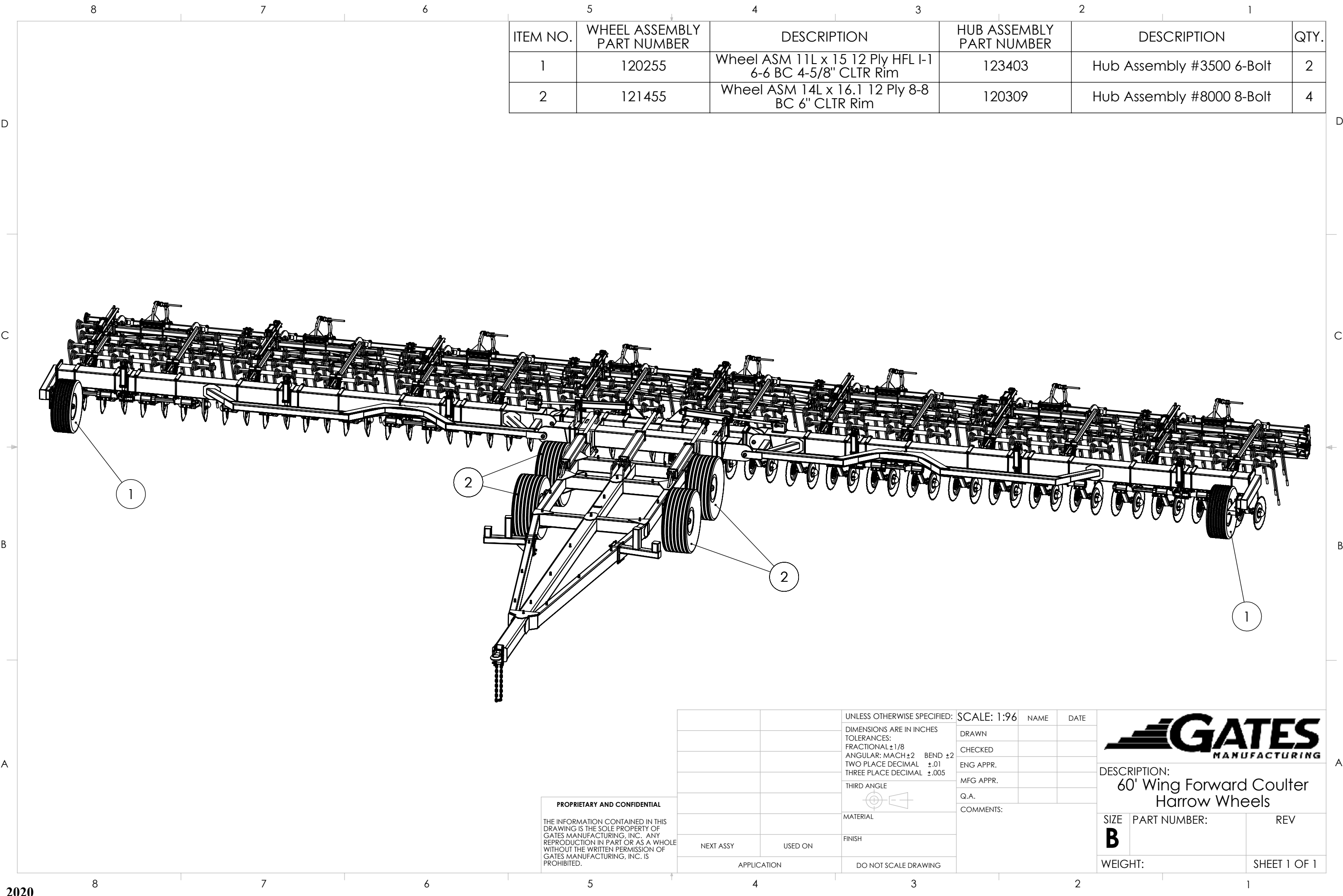
DESCRIPTION:

ELDALE DBL END CLTR SPNDL ASM

SIZE	PART NUMBER:	REV
B	126861	A-14

WEIGHT: 26.481

SHEET 1 OF 1

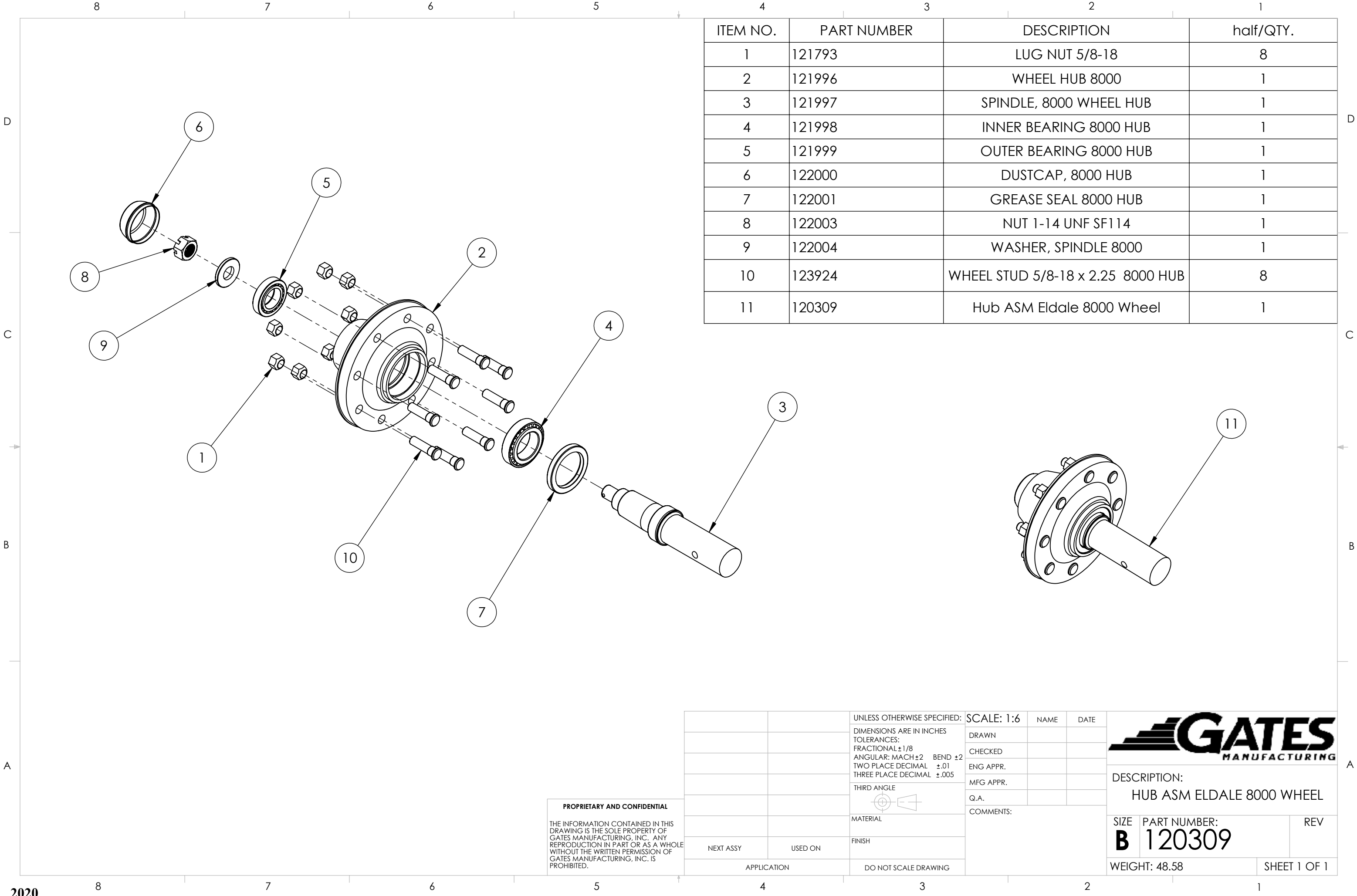


ITEM NO.	WHEEL ASSEMBLY PART NUMBER	DESCRIPTION	HUB ASSEMBLY PART NUMBER	DESCRIPTION	QTY.
1	120255	Wheel ASM 11L x 15 12 Ply HFL I-1 6-6 BC 4-5/8" CLTR Rim	123403	Hub Assembly #3500 6-Bolt	2
2	121455	Wheel ASM 14L x 16.1 12 Ply 8-8 BC 6" CLTR Rim	120309	Hub Assembly #8000 8-Bolt	4

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/8$ ANGULAR: MACH ± 2 BEND ± 2 TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$ THIRD ANGLE  MATERIAL FINISH DO NOT SCALE DRAWING	SCALE: 1:96	NAME	DATE
			DRAWN		
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		Q.A.			
		COMMENTS:			
NEXT ASSY		USED ON	DESCRIPTION: 60' Wing Forward Coulter Harrow Wheels		
APPLICATION			SIZE B	PART NUMBER:	REV
			WEIGHT:		SHEET 1 OF 1



ITEM NO.	PART NUMBER	DESCRIPTION	half/QTY.
1	121793	LUG NUT 5/8-18	8
2	121996	WHEEL HUB 8000	1
3	121997	SPINDLE, 8000 WHEEL HUB	1
4	121998	INNER BEARING 8000 HUB	1
5	121999	OUTER BEARING 8000 HUB	1
6	122000	DUSTCAP, 8000 HUB	1
7	122001	GREASE SEAL 8000 HUB	1
8	122003	NUT 1-14 UNF SF114	1
9	122004	WASHER, SPINDLE 8000	1
10	123924	WHEEL STUD 5/8-18 x 2.25 8000 HUB	8
11	120309	Hub ASM Eldale 8000 Wheel	1

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	SCALE: 1:6	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN		
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm 1/8$	ENG APPR.		
		ANGULAR: MACH ± 2 BEND ± 2	MFG APPR.		
		TWO PLACE DECIMAL $\pm .01$	Q.A.		
		THREE PLACE DECIMAL $\pm .005$	COMMENTS:		
		THIRD ANGLE			
		MATERIAL			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

DESCRIPTION:
HUB ASM ELDALE 8000 WHEEL

SIZE	PART NUMBER:	REV
B	120309	

WEIGHT: 48.58	SHEET 1 OF 1
---------------	--------------

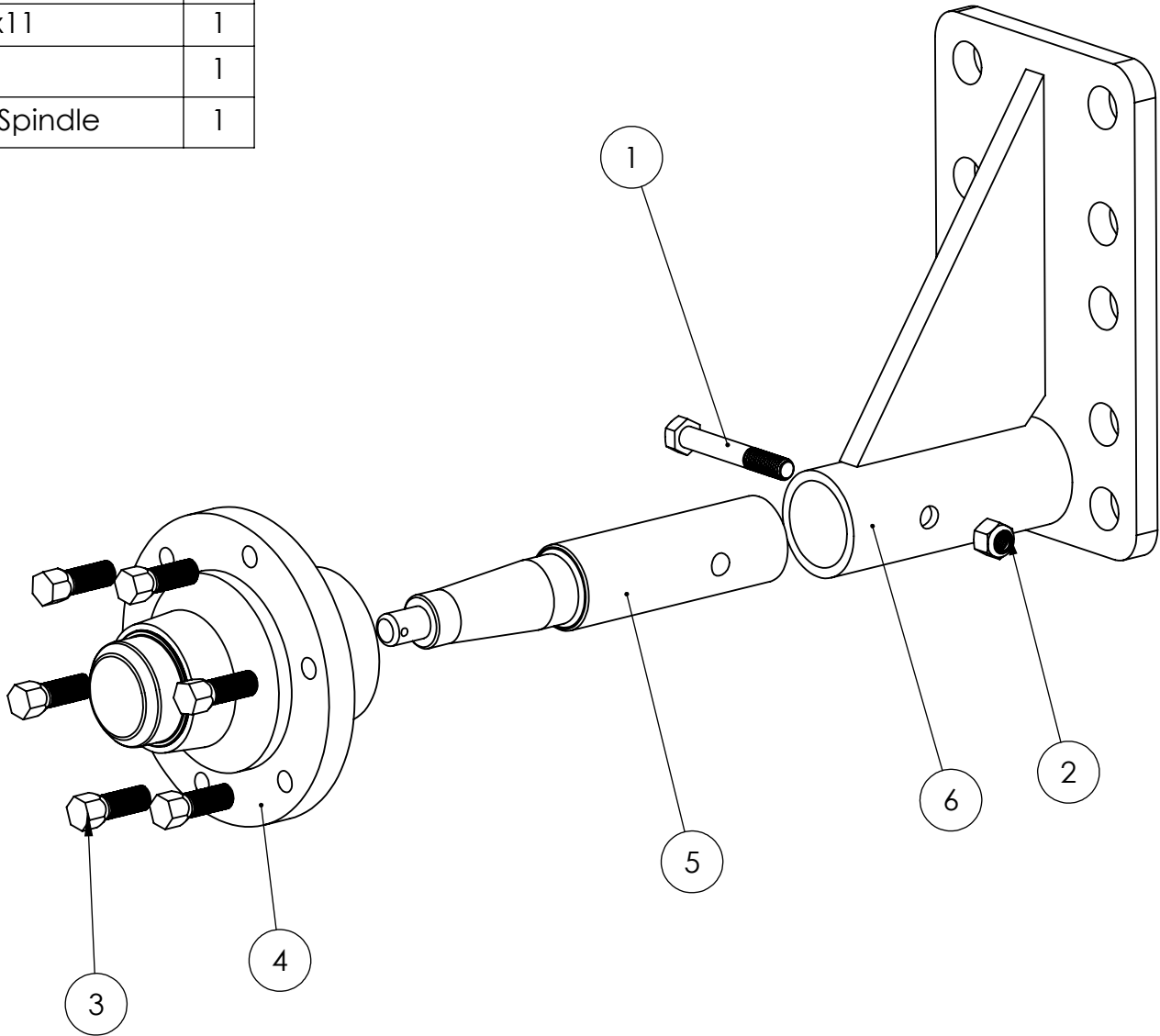
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120093	Bolt 1/2-13 x 3-1/2 GR5	1
2	120137	Nut Nylock 1/2-13 GR5 PLTD	1
3	120264	Lug Bolt 9/16-18x1-1/4	6
4	120273	Hub Assembly #3500 w/Bearings Seal Dust Caps 6-bolt	1
5	120275	Spindle Assy #3500 w/Washer Nut 2x11	1
6	122151	Stub Axle Plate for 2" Spindle	1
7	123403	Assy Stub Axle Plate with 6 Bolt Hub and Spindle	1

D

C

B

A



D

C

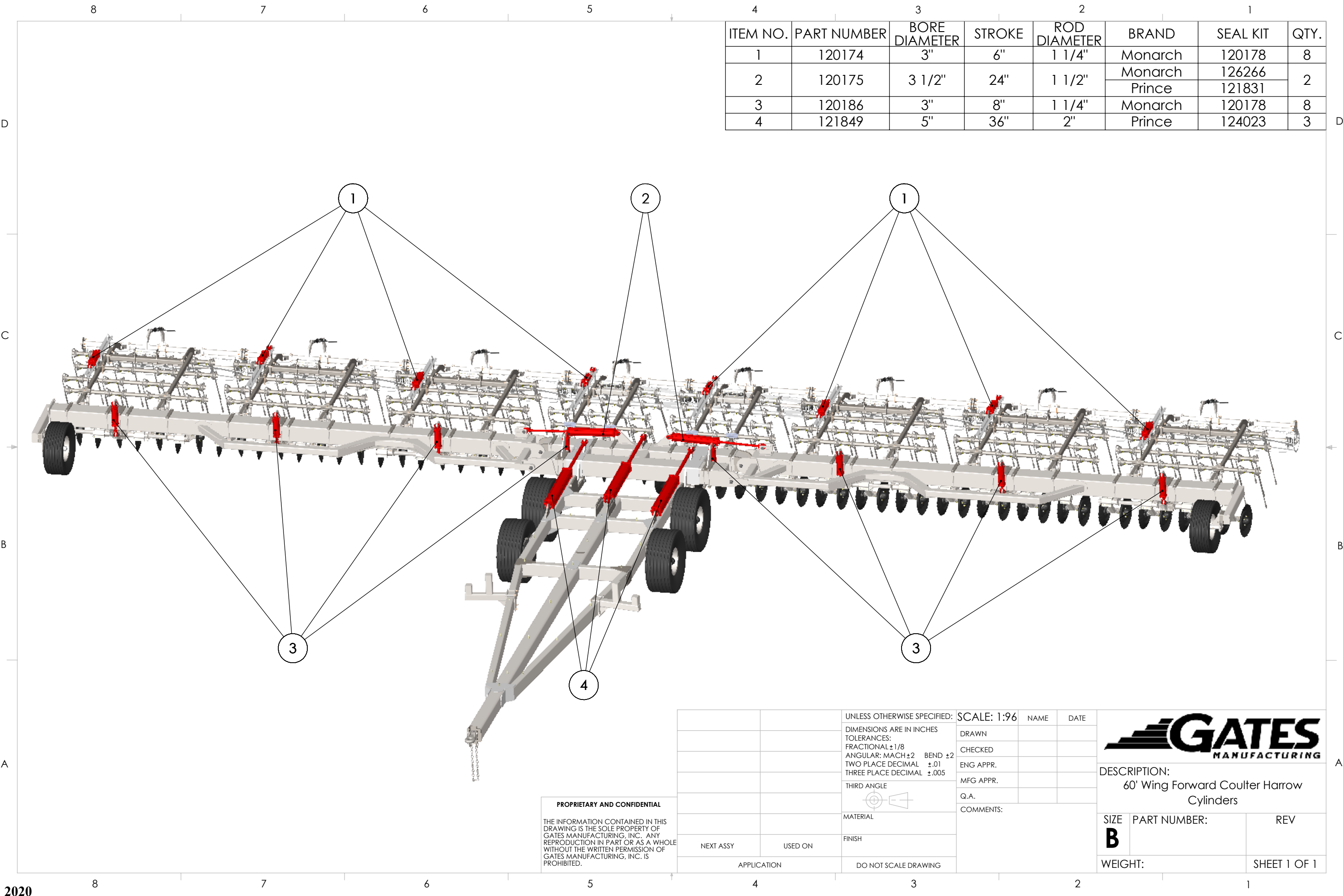
B

A

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	SCALE: 1:4	NAME	DATE				
		DIMENSIONS ARE IN INCHES	DRAWN	Britta	1-15-2015				
		TOLERANCES:	CHECKED						
		FRACTIONAL ± 1/8	ENG APPR.						
		ANGULAR: MACH ±2 BEND ±2	MFG APPR.						
		TWO PLACE DECIMAL ±.01	Q.A.			DESCRIPTION: Assy Stub Axle Plate with 6 Bolt Hub and Spindle			
		THREE PLACE DECIMAL ±.005	COMMENTS:						
		THIRD ANGLE							
		MATERIAL							
		FINISH							
NEXT ASSY	USED ON						SIZE	PART NUMBER:	REV
							B	123403	
APPLICATION		DO NOT SCALE DRAWING					WEIGHT: 21.54		SHEET 1 OF 1



ITEM NO.	PART NUMBER	BORE DIAMETER	STROKE	ROD DIAMETER	BRAND	SEAL KIT	QTY.
1	120174	3"	6"	1 1/4"	Monarch	120178	8
2	120175	3 1/2"	24"	1 1/2"	Monarch	126266	2
					Prince	121831	
3	120186	3"	8"	1 1/4"	Monarch	120178	8
4	121849	5"	36"	2"	Prince	124023	3

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		SCALE: 1:96		NAME	DATE
		DIMENSIONS ARE IN INCHES		DRAWN			
		TOLERANCES:		CHECKED			
		FRACTIONAL ±1/8		ENG APPR.			
		ANGULAR: MACH ±2 BEND ±2		MFG APPR.			
		TWO PLACE DECIMAL ±.01		Q.A.			
		THREE PLACE DECIMAL ±.005		COMMENTS:			
		THIRD ANGLE					
		MATERIAL					
		FINISH					
NEXT ASSY	USED ON						
APPLICATION		DO NOT SCALE DRAWING					

DESCRIPTION:
60' Wing Forward Coulter Harrow Cylinders

SIZE	PART NUMBER:	REV
B		

WEIGHT: SHEET 1 OF 1

Cylinder Pins

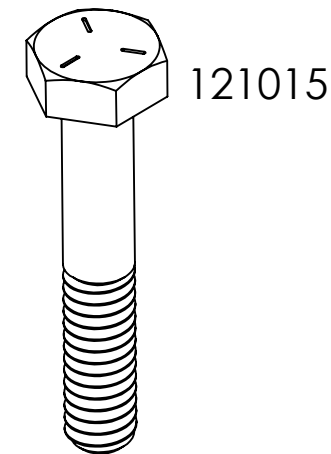
PART NUMBER	DESCRIPTION	QTY.
120333	1" x 3-3/4" Cylinder Pin	16
120334	1" x 5-1/4" Round Head Pin	2
124420	1-1/4" x 9-1/2" Round Head Pin	1
125860	1-1/4" x 4" Cylinder Pin	7
125880*	Clevis Pin 1" x 3" PLTD	16
126032*	Clevis Pin 1" x 3-1/2" PLTD	32

Frame Pins

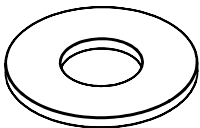
121519	2" x 13-1/4" Square Head Pin	2
122055	1" x 6-1/4" Round Head Pin	3
122060	2" x 7-1/2" Square Head Pin	2

*To secure these pins, use:

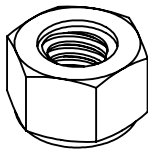
120131	Nut Nylock 1-1/4-20	1
120154	1" Flat Washer	1
121015	Bolt 1-1/4-20 x 1/2	1



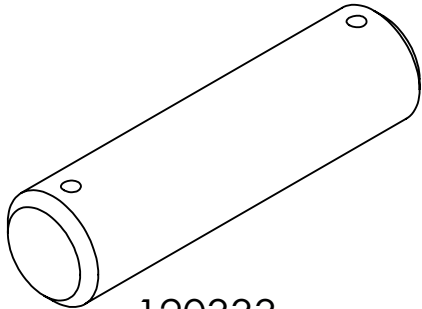
121015



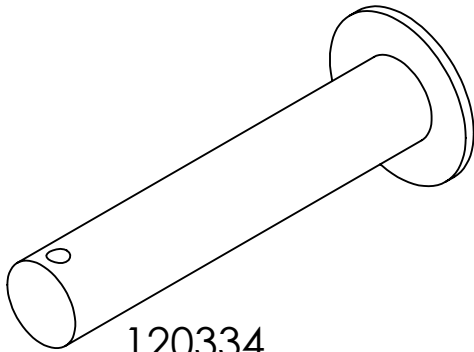
120154



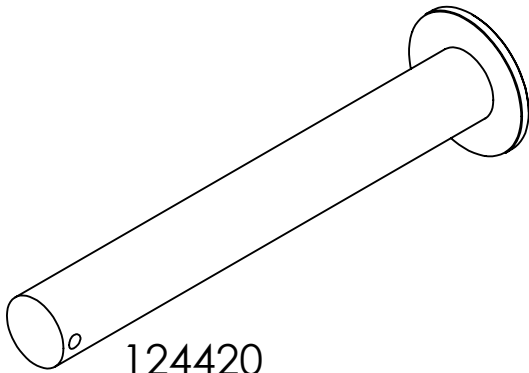
120131



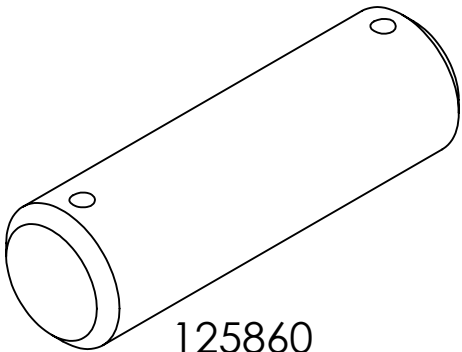
120333



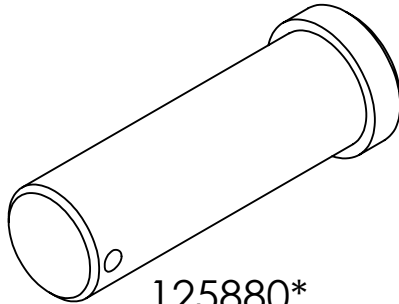
120334



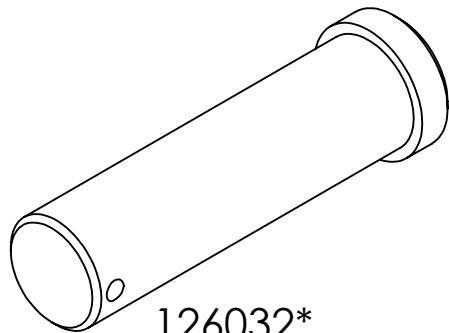
124420



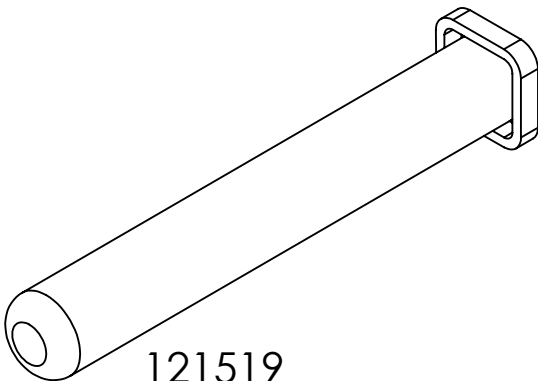
125860



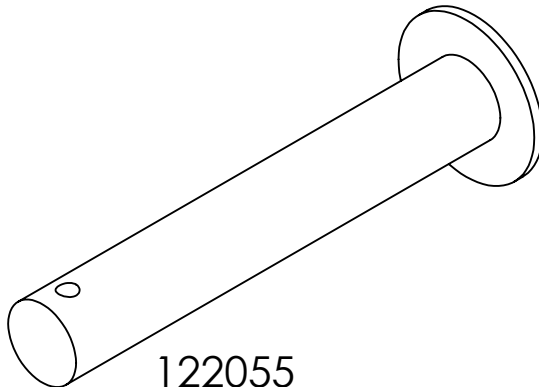
125880*



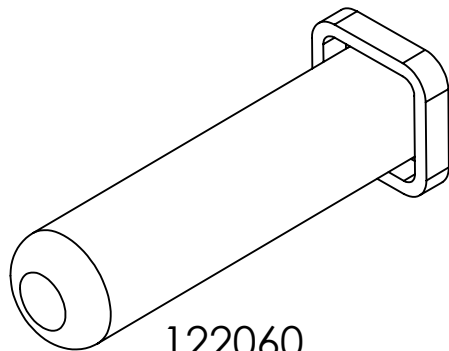
126032*



121519



122055



122060

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL $\pm 1/8$
ANGULAR: MACH ± 2 BEND ± 2
TWO PLACE DECIMAL $\pm .01$
THREE PLACE DECIMAL $\pm .005$
THIRD ANGLE
MATERIAL
ASTM A36 Steel
FINISH
DO NOT SCALE DRAWING

SCALE: 1:1
DRAWN
CHECKED
ENG APPR.
MFG APPR.
Q.A.
COMMENTS:

GATES
MANUFACTURING

DESCRIPTION:
60' Wing Forward Coulter Harrow Pins

SIZE
B

PART NUMBER:
See table

REV

WEIGHT: 0.816

SHEET 1 OF 1

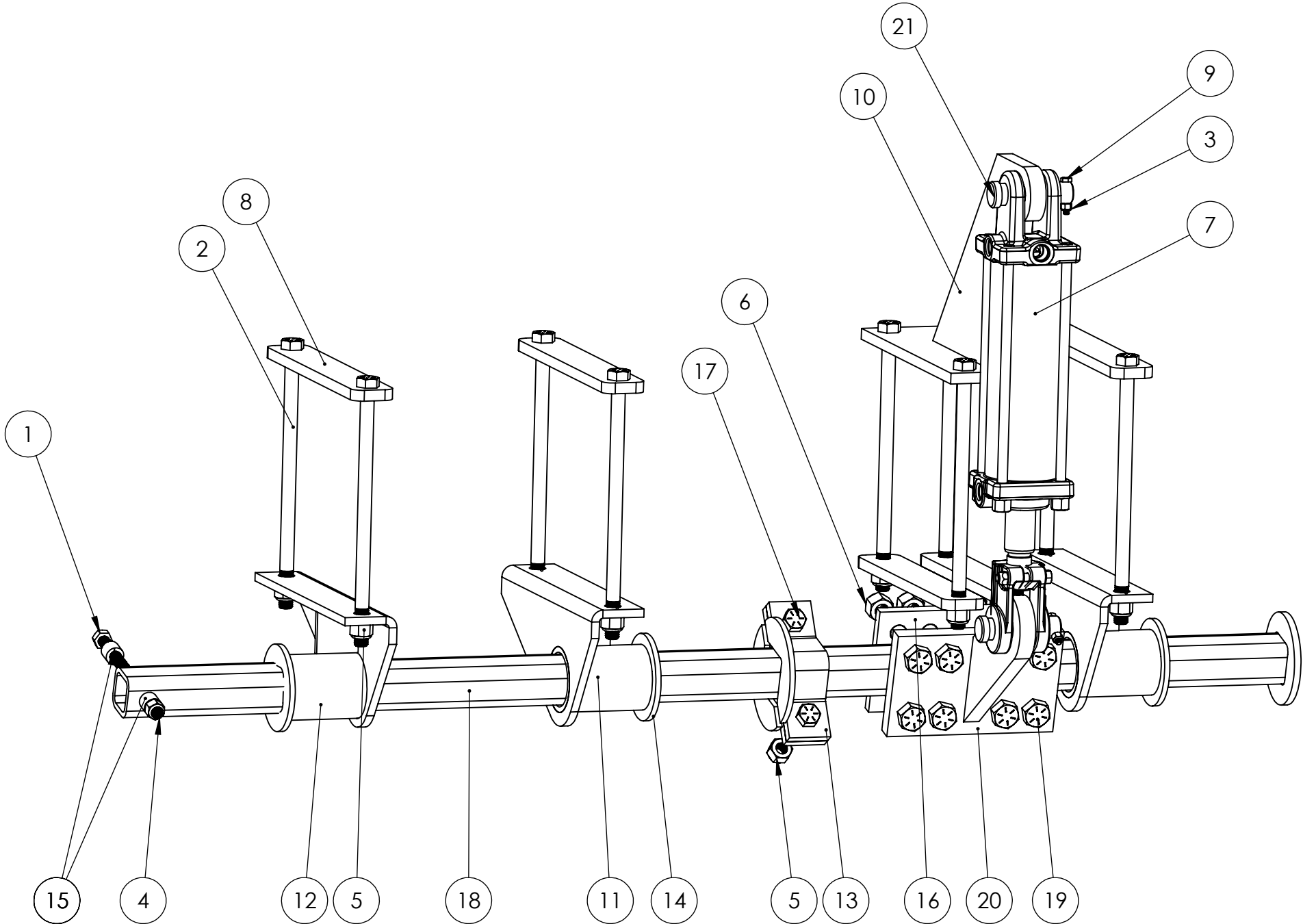
D

C

B

A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120096	Bolt 1/2-13 x 4-1/2 GR5 PLTD	1
2	120109	Bolt 5/8-11 x 12 GR5 PLTD	10
3	120131	Nut Nylock 1/4-20 GR5 PLTD	2
4	120137	Nut Nylock 1/2-13 GR5 PLTD	1
5	120138	Nut Nylock 5/8-11 GR5 PLTD	12
6	120140	Nut Nylock 3/4-10 GR5 PLTD	8
7	120186	Cylinder 3 x 8 x 1-1/4 Tie Rod	1
8	120330	Backing Plate 10" Tube	5
9	121015	Bolt 1/4-20 x 1-1/2 GR5 PLTD	2
10	121525	Coulter Gang Cylinder Frame Ear Narrow	1
11	122192	Gang Hanger Bracket Left	2
12	122193	Gang Hanger Bracket Right	1
13	122523	Coulter Arm Stop	2
14	122524	Coulter Arm Stop Washer	3
15	122525	Spacer 1/2 ID x 3/4 Length	2
16	123206	Coulter Rockshaft Cylinder Ear Backing Plate 8 Hole	1
17	123867	Bolt 5/8-11 x 2-1/2 GR8 YZ PLTD	2
18	124843	WELD - Rock Shaft 6 Disk CLTR HRW	1
19	125053	Bolt 3/4-10 x 4-1/2 GR8 YZ PLTD	8
20	125072	Coulter Harrow Rockshaft Cylinder Ear, 8 Hole, 3/4" Plate	1
21	126032	Clevis Pin 1" x 3-1/2" PLTD	2



D

C

B

A

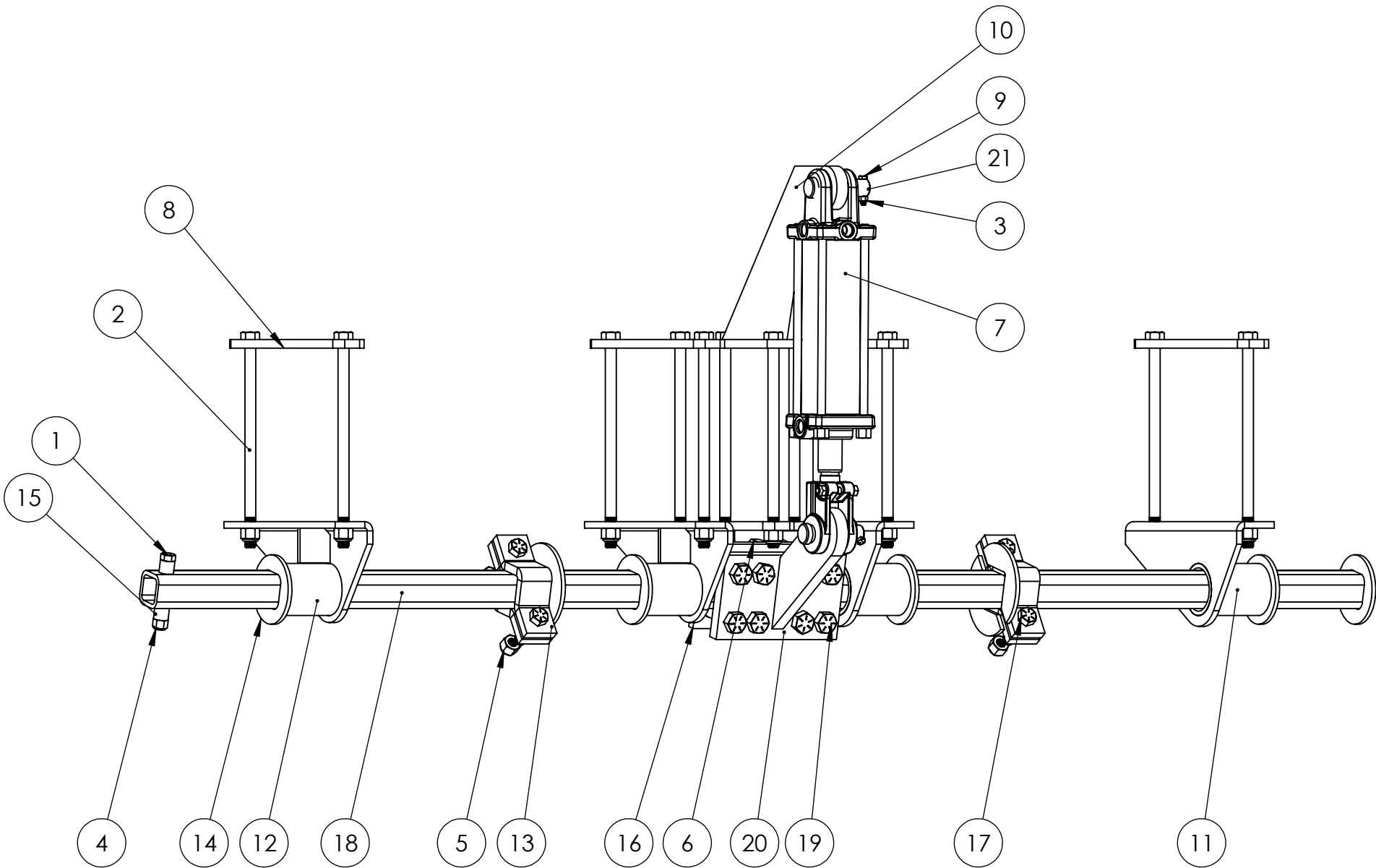
D

C

B

A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	120096	Bolt 1/2-13 x 4-1/2 GR5 PLTD	1
2	120109	Bolt 5/8-11 x 12 GR5 PLTD	12
3	120131	Nut Nylock 1/4-20 GR5 PLTD	2
4	120137	Nut Nylock 1/2-13 GR5 PLTD	1
5	120138	Nut Nylock 5/8-11 GR5 PLTD	16
6	120140	Nut Nylock 3/4-10 GR5 PLTD	8
7	120186	Cylinder 3 x 8 x 1-1/4 Tie Rod	1
8	120330	Backing Plate 10" Tube	6
9	121015	Bolt 1/4-20 x 1-1/2 GR5 PLTD	2
10	121525	Coulter Gang Cylinder Frame Ear Narrow	1
11	122192	Gang Hanger Bracket Left	2
12	122193	Gang Hanger Bracket Right	2
13	122523	Coulter Arm Stop	4
14	122524	Coulter Arm Stop Washer	5
15	122525	Spacer 1/2 ID x 3/4 Length	2
16	123206	Coulter Rockshaft Cylinder Ear Backing Plate 8 Hole	1
17	123867	Bolt 5/8-11 x 2-1/2 GR8 YZ PLTD	4
18	124151	CLTR Harrow Rock Shaft 8 Disk Gang	1
19	125053	Bolt 3/4-10 x 4-1/2 GR8 YZ PLTD	8
20	125072	Coulter Harrow Rockshaft Cylinder Ear, 8 Hole, 3/4" Plate	1
21	126032	Clevis Pin 1" x 3-1/2" PLTD	2



D

C

B

A

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	SCALE: 1:8	NAME	DATE	 DESCRIPTION: Coulter Harrow Gang Parts Page - 8 Foot		
		DIMENSIONS ARE IN INCHES	DRAWN	Britta	10/13/2017			
		TOLERANCES:	CHECKED					
		FRACTIONAL ±1/8	ENG APPR.					
		ANGULAR: MACH ±2 BEND ±2	MFG APPR.					
		TWO PLACE DECIMAL ±.01	Q.A.			SIZE	PART NUMBER:	REV
		THREE PLACE DECIMAL ±.005	COMMENTS:			B		
		THIRD ANGLE				WEIGHT: 203.61		
						SHEET 1 OF 1		
		MATERIAL						
		FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING						

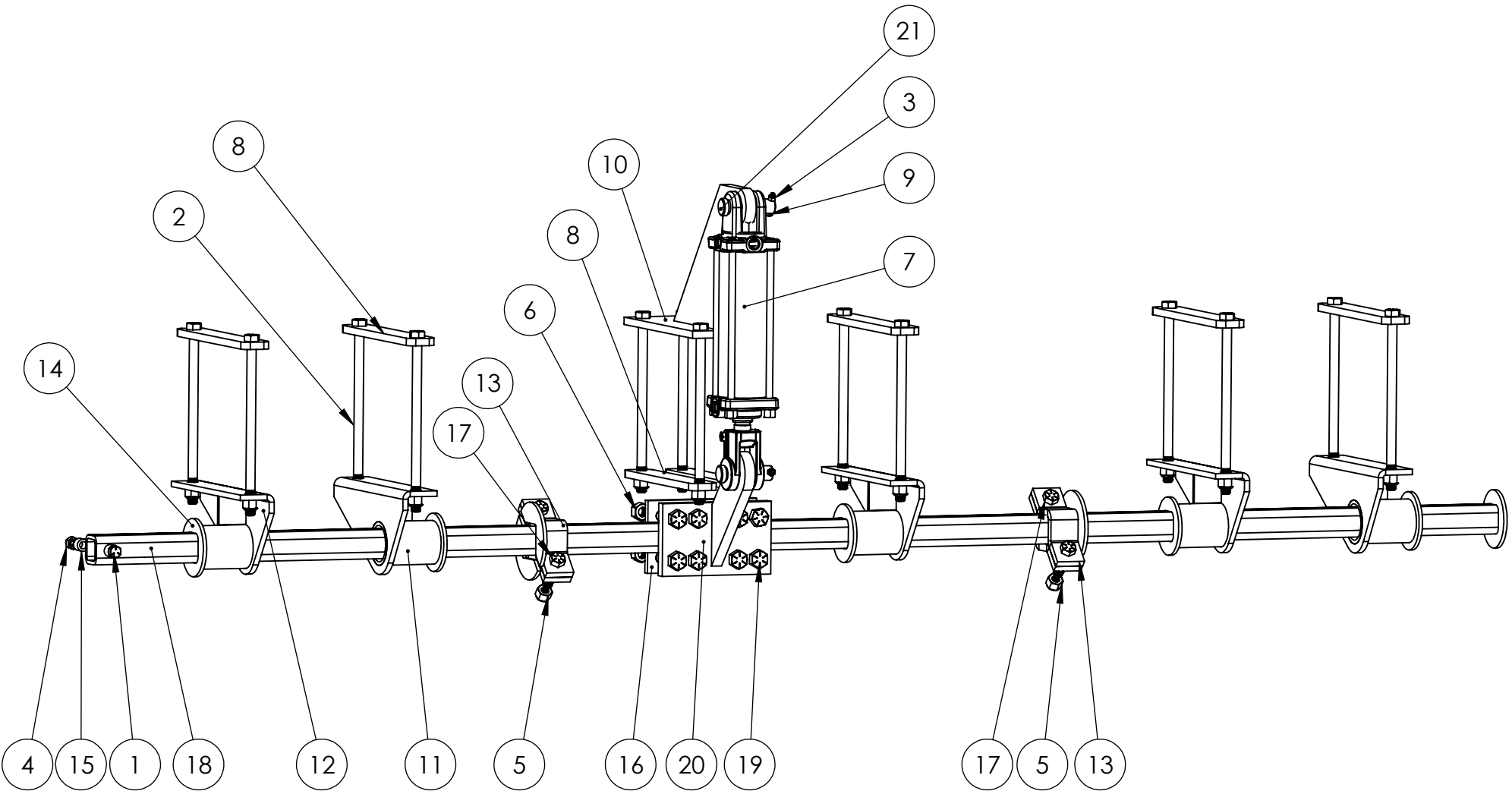
D

C

B

A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120096	Bolt 1/2-13 x 4-1/2 GR5 PLTD	1
2	120109	Bolt 5/8-11 x 12 GR5 PLTD	14
3	120131	Nut Nylock 1/4-20 GR5 PLTD	2
4	120137	Nut Nylock 1/2-13 GR5 PLTD	1
5	120138	Nut Nylock 5/8-11 GR5 PLTD	18
6	120140	Nut Nylock 3/4-10 GR5 PLTD	8
7	120186	Cylinder 3 x 8 x 1-1/4 Tie Rod	1
8	120330	Backing Plate 10" Tube	7
9	121015	Bolt 1/4-20 x 1-1/2 GR5 PLTD	2
10	121525	Coulter Gang Cylinder Frame Ear Narrow	1
11	122192	Gang Hanger Bracket Left	2
12	122193	Gang Hanger Bracket Right	3
13	122523	Coulter Arm Stop	4
14	122524	Coulter Arm Stop Washer	5
15	122525	Spacer 1/2 ID x 3/4 Length	2
16	123206	Coulter Rockshaft Cylinder Ear Backing Plate 8 Hole	1
17	123867	Bolt 5/8-11 x 2-1/2 GR8 YZ PLTD	4
18	124149	10' Section Gang Tube	1
19	125053	Bolt 3/4-10 x 4-1/2 GR8 YZ PLTD	8
20	125072	Coulter Harrow Rockshaft Cylinder Ear, 8 Hole, 3/4" Plate	1
21	126032	Clevis Pin 1" x 3-1/2" PLTD	2



D

C

B

A

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL $\pm 1/8$

ANGULAR: MACH ± 2 BEND ± 2

TWO PLACE DECIMAL $\pm .01$

THREE PLACE DECIMAL $\pm .005$



MATERIAL

FINISH

DO NOT SCALE DRAWING

SCALE: 1:10

DRAWN

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:

NAME

DATE

BRITTA

10/13/17



DESCRIPTION:

Forward Fold Coulter Harrow Gang - 10 Foot Section

SIZE

PART NUMBER:

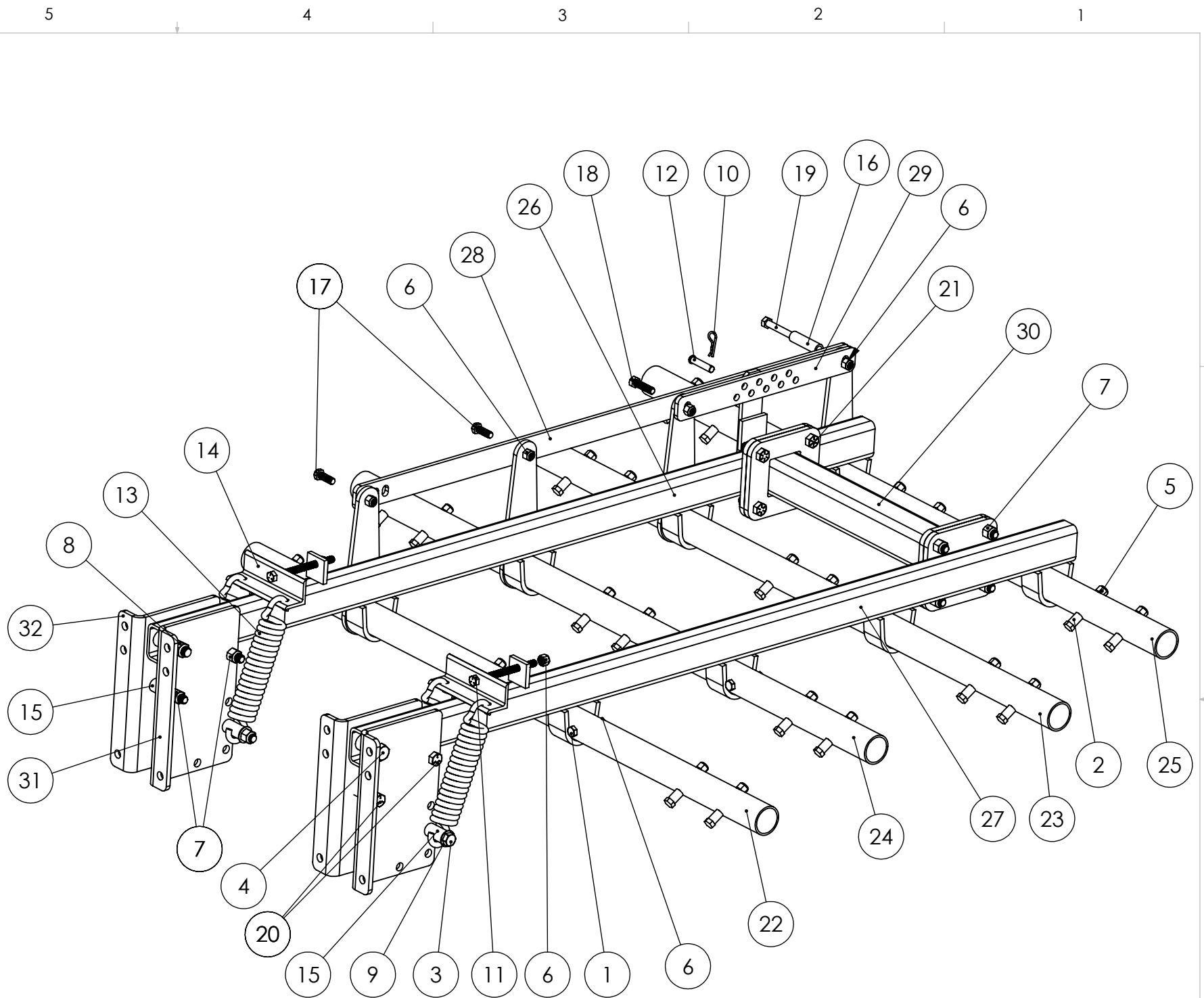
REV

B

WEIGHT: 230.37

SHEET 1 OF 1

	8	7	6	
	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
	1	120092	Bolt 1/2-13 x 3 GR5 PLTD	2
	2	120094	1/2" x 3.75" Shoulder Bolt	24
	3	120106	Bolt 5/8-11 x 8 GR5 PLTD	2
	4	120112	Bolt 3/4-10 x 4 GR5 PLTD	2
D	5	120136	Nut Nylock 1/2-13 FR5 YELLOW PLTD	24
	6	120137	Nut Nylock 1/2-13 GR5 PLTD	8
	7	120138	Nut Nylock 5/8-11 GR5 PLTD	14
	8	120140	Nut Nylock 3/4-10 GR5 PLTD	2
	9	120151	Washer Flat 5/8 PLTD	4
	10	120160	Pin Hair Pin Clip #16	1
	11	120163	Continuous Thread Bolt 1/2-13 x 6 GR5 PLTD	2
	12	120164	Pin Clevis 1/2 x 2 PLTD	1
	13	120238	Tension Spring .427 x 10-3/4	4
	14	120336	Tension Tightener	2
C	15	120376	Spacer 3/4 ID x 2.0625	10
	16	120387	Adjustment Spacer	1
	17	121091	Bolt 1/2-13 x 1-1/2 GR5 PLTD	2
	18	121093	Botl 1/2-13 x 2 GR5 PLTD	1
	19	121098	Bolt 1/2-13 x 5-1/2 GR5 PLTD	1
	20	121130	Bolt 5/8-11 x 4 GR5 PLTD	4
	21	121776	Bolt 5/8-11 x 2 GR8 YZ PLTD	8
	22	122201	Harrow Pipe, DBH, 6' 4 Bar #1	1
	23	122202	Harrow Pipe, DBH, 6' 4 Bar #2	1
	24	122203	Harrow Pipe, DBH, 6' 4 Bar #3	1
	25	122204	Harrow Pipe, DBH, 6' 4 Bar #4	1
B	26	123195	4 Bar Drawbar Arm Right	1
	27	123719	4 Bar Drawbar Arm Left	1
	28	123811	Linkage Manual Tine Adjust 4 Bar	1
	29	123813	Linkage Manual Tine Adjust Rear Adjustment Plate	1
	30	125215	6' Stabilizer Bar 5/8 Bolt Mount	1
	31	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material	2
	32	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material	2



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/8 ANGULAR: MACH ±2 BEND ±2 TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005 THIRD ANGLE 	SCALE: 1:1	NAME	DATE
		MATERIAL	DRAWN		
		FINISH	CHECKED		
NEXT ASSY	USED ON		ENG APPR.		
			MFG APPR.		
			Q.A.		
			COMMENTS:		
APPLICATION		DO NOT SCALE DRAWING			

DESCRIPTION:
6' 4 Bar Drawbar Section Manual Tine Adjust

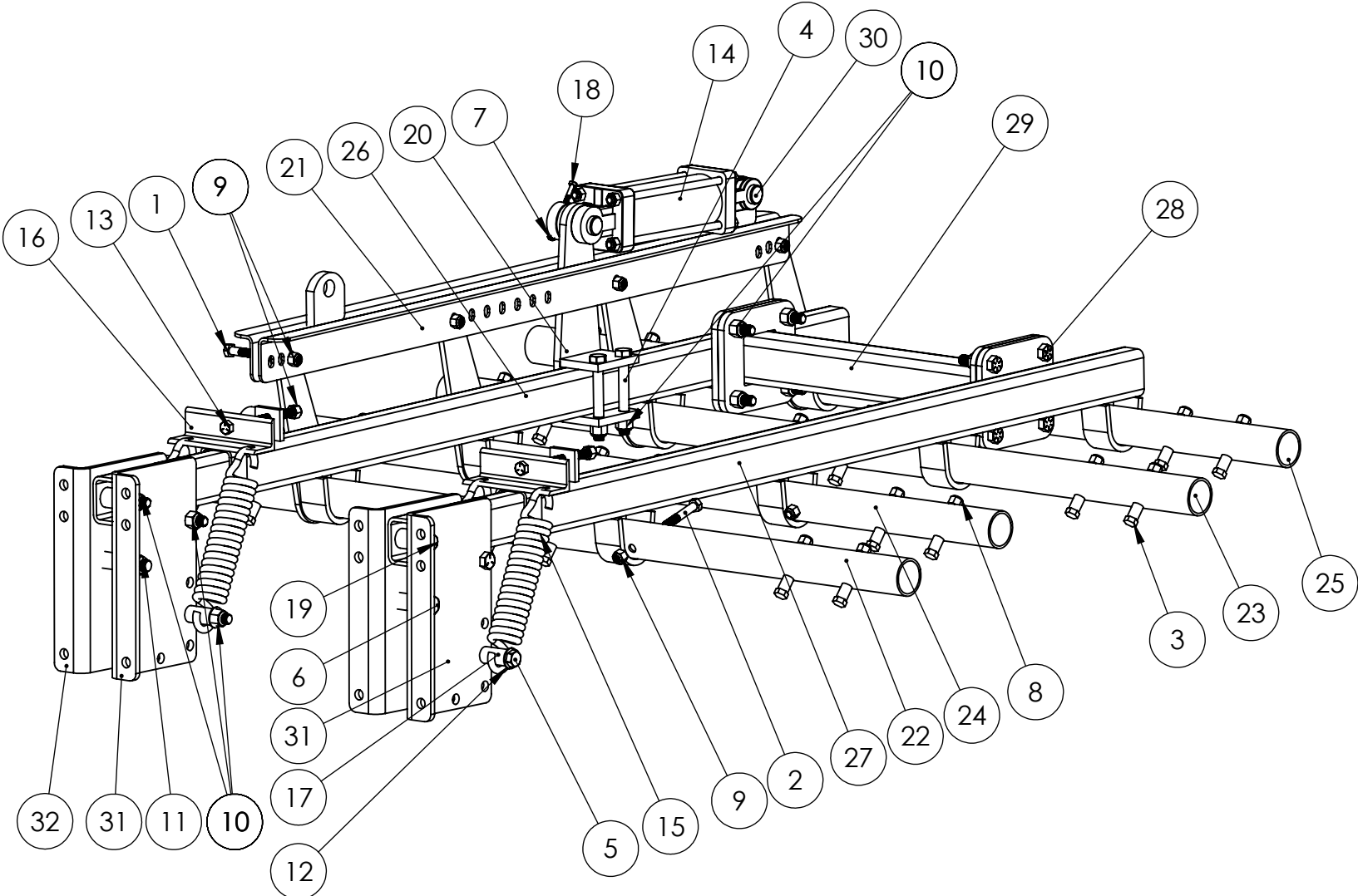
SIZE B	PART NUMBER:	REV
WEIGHT: 272.639		SHEET 1 OF 1

D

C

B

A



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120090	Bolt 1/2"-13 x 2" GR8 PLTD	4
2	120092	Bolt 1/2-13 x 3 GR5 PLTD	2
3	120094	1/2" x 3.75" Shoulder bolt	24
4	120102	Bolt 5/8-11 x 5 GR5 PLTD	2
5	120106	Bolt 5/8-11 x 8 GR5 PLTD	2
6	120112	Boly 3/4-10 x 4 GR5 PLTD	2
7	120131	Nut Nylock 1/4-20 GR5 PLTD	2
8	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD	24
9	120137	Nut Nylock 1/2-13 GR5 PLTD	8
10	120138	Nut Nylock 5/8-11 GR5 PLTD	16
11	120140	Nut Nylock 3/4-10 GR5 PLTD	2
12	120151	Washer Flat 5/8 PLTD	4
13	120163	Continuous Thread Bolt 1/2-13 x 6 GR5 PLTD	2
14	120174	Cylinder 3 x 6 x 1-1/4 Tie Rod Double Rephasing DBH	1
15	120238	Tension Spring .4375 x 10-3/4	4
16	120336	Tension Tightner	2
17	120376	Spacer 3/4 ID x 2.0625	10
18	121015	Bolt 1/4-20 x 1-1/2 GR5 PLTD	2
19	121130	Bolt 5/8-11 x 4 GR5 PLTD	4
20	121520	Hydraulic Tine Adjustment Stationary Ear	1
21	122179	4 Bar Hydraulic Tine Linkage	1
22	122201	Harrow Pipe, DBH, 6' 4 Bar #1	1
23	122202	Harrow Pipe, DBH, 6' 4 Bar #2	1
24	122203	Harrow Pipe, DBH, 6' 4 Bar #3	1
25	122204	Harrow Pipe, DBH, 6' 4 Bar #4	1
26	123196	4 Bar Drawbar Arm Hydraulic Tine Adj. Right	1
27	123719	4 Bar Drawbar Arm Left	1
28	123867	Bolt 5/8-11 x 2-1/2 GR8 YZ PLTD	8
29	125215	6' Stabilizer Bar 5/8 Bolt Mount	1
30	125880	Clevis Pin 1" x 3" PLTD	2
31	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material	2
32	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material	2

PROPRIETARY AND CONFIDENTIAL

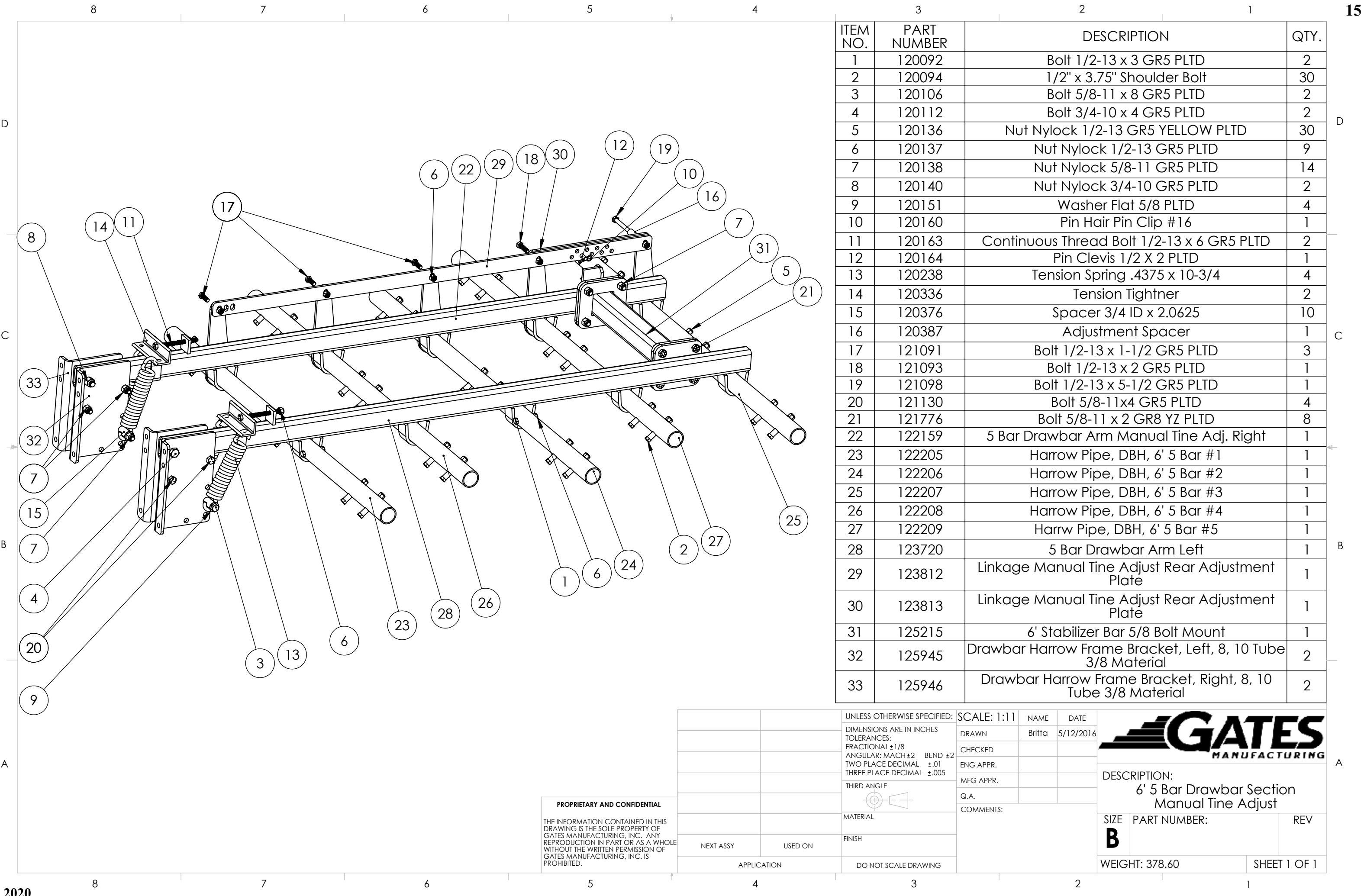
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		SCALE: 1:10	NAME	DATE
		DIMENSIONS ARE IN INCHES		DRAWN	Britta	10/26/2015
		TOLERANCES:		CHECKED		
		FRACTIONAL ±1/8		ENG APPR.		
		ANGULAR: MACH ±2 BEND ±2		MFG APPR.		
		TWO PLACE DECIMAL ±.01		Q.A.		
		THREE PLACE DECIMAL ±.005		COMMENTS:		
		THIRD ANGLE				
		MATERIAL				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				

DESCRIPTION:
6' 4 Bar Drawbar Section Hydraulic Tine Adjust

SIZE	PART NUMBER:	REV
B		

WEIGHT: 298.51	SHEET 1 OF 1
----------------	--------------



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120092	Bolt 1/2-13 x 3 GR5 PLTD	2
2	120094	1/2" x 3.75" Shoulder Bolt	30
3	120106	Bolt 5/8-11 x 8 GR5 PLTD	2
4	120112	Bolt 3/4-10 x 4 GR5 PLTD	2
5	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD	30
6	120137	Nut Nylock 1/2-13 GR5 PLTD	9
7	120138	Nut Nylock 5/8-11 GR5 PLTD	14
8	120140	Nut Nylock 3/4-10 GR5 PLTD	2
9	120151	Washer Flat 5/8 PLTD	4
10	120160	Pin Hair Pin Clip #16	1
11	120163	Continuous Thread Bolt 1/2-13 x 6 GR5 PLTD	2
12	120164	Pin Clevis 1/2 X 2 PLTD	1
13	120238	Tension Spring .4375 x 10-3/4	4
14	120336	Tension Tightner	2
15	120376	Spacer 3/4 ID x 2.0625	10
16	120387	Adjustment Spacer	1
17	121091	Bolt 1/2-13 x 1-1/2 GR5 PLTD	3
18	121093	Bolt 1/2-13 x 2 GR5 PLTD	1
19	121098	Bolt 1/2-13 x 5-1/2 GR5 PLTD	1
20	121130	Bolt 5/8-11x4 GR5 PLTD	4
21	121776	Bolt 5/8-11 x 2 GR8 YZ PLTD	8
22	122159	5 Bar Drawbar Arm Manual Time Adj. Right	1
23	122205	Harrow Pipe, DBH, 6' 5 Bar #1	1
24	122206	Harrow Pipe, DBH, 6' 5 Bar #2	1
25	122207	Harrow Pipe, DBH, 6' 5 Bar #3	1
26	122208	Harrow Pipe, DBH, 6' 5 Bar #4	1
27	122209	Harrow Pipe, DBH, 6' 5 Bar #5	1
28	123720	5 Bar Drawbar Arm Left	1
29	123812	Linkage Manual Time Adjust Rear Adjustment Plate	1
30	123813	Linkage Manual Time Adjust Rear Adjustment Plate	1
31	125215	6' Stabilizer Bar 5/8 Bolt Mount	1
32	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material	2
33	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material	2

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

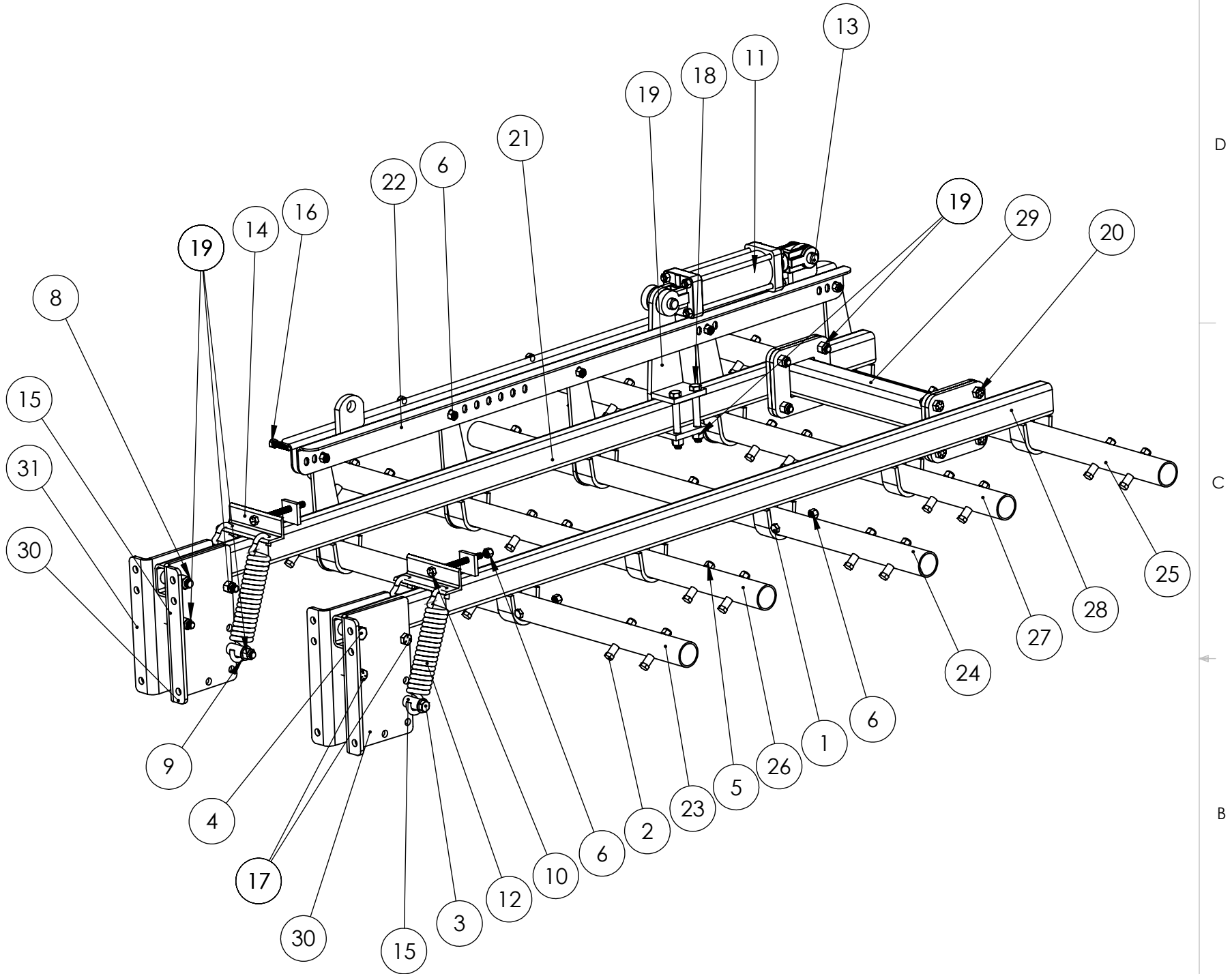
UNLESS OTHERWISE SPECIFIED:		SCALE: 1:11	NAME	DATE
DIMENSIONS ARE IN INCHES		DRAWN	Britta	5/12/2016
TOLERANCES:		CHECKED		
FRACTIONAL ±1/8		ENG APPR.		
ANGULAR: MACH ±2 BEND ±2		MFG APPR.		
TWO PLACE DECIMAL ±.01		Q.A.		
THREE PLACE DECIMAL ±.005		COMMENTS:		
THIRD ANGLE				
MATERIAL				
FINISH				
NEXT ASSY	USED ON			
APPLICATION		DO NOT SCALE DRAWING		

DESCRIPTION:
6' 5 Bar Drawbar Section
Manual Time Adjust

SIZE	PART NUMBER:	REV
B		

WEIGHT: 378.60 SHEET 1 OF 1

	8	7	6	5	4	3	2	1	16
	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.					
	1	120092	Bolt 1/2-13 x 3 GR5 PLTD	2					
	2	120094	1/2" x 3.75" Shoulder Bolt	30					
	3	120106	Bolt 5/8-11 x 8 GR5 PLTD	2					
D	4	120112	Boly 3/4-10 x 4 GR5 PLTD	2					
	5	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD	30					
	6	120137	Nut Nylock 1/2-13 GR5 PLTD	9					
	19	120138	Nut Nylock 5/8-11 GR5 PLTD	16					
	8	120140	Nut Nylock 3/4-10 GR5 PLTD	2					
	9	120151	Washer Flat 5/8 PLTD	4					
	10	120163	Continuous Thread Bolt 1/2-13 x 6 GR5 PLTD	2					
	11	120174	Cylinder 3 x 6x 1-1/4 Tie Rod Double Rephasing DBH	1					
	12	120238	Tension Spring .4375 x 10-3/4	4					
	13	120333	Cylinder Pin 1 x 3-3/4 3 Usable	2					
	14	120336	Tension Tightner	2					
C	15	120376	Spacer 3/4 ID x 2.0625	10					
	16	121093	Bolt 1/2-13 x 2 GR5 PLTD	5					
	17	121130	Bolt 5/8-11 x 4 GR5 PLTD	4					
	18	121132	Bolt 5/8-11 x 5 GR5 PLTD	2					
	19	121520	Hydraulic Tine Adjustment Stationary Ear	1					
	20	121776	Bolt 5/8-11 x 2 GR8 YZ PLTD	8					
→	21	122160	5 Bar Drawbar Arm Hydraulic Tine Adj. Right	1					
	22	122180	5 Bar Hydraulic Tine Linkage	1					
	23	122205	Harrow Pipe, DBH, 6' 5 Bar #1	1					
	24	122206	Harrow Pipe, DBH, 6' 5 Bar #2	1					
	25	122207	Harrow Pipe, DBH, 6' 5 Bar #3	1					
B	26	122208	Harrow Pipe, DBH, 6' 5 Bar #4	1					
	27	122209	Harrow Pipe, DBH, 6' 5 Bar #5	1					
	28	123720	5 Bar Drawbar Arm Left	1					
	29	125215	6' Stabilizer Bar 5/8 Bolt Mount	1					
	30	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material	2					
	31	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material	2					



A

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/8 ANGULAR: MACH±2 BEND ±2 TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005 THIRD ANGLE 		SCALE: 1:12	NAME	DATE	 DESCRIPTION: 6' 5 Bar Drawbar Section Hydraulic Tine Adjust				
				DRAWN	Britta	5/12/2016					
				CHECKED							
				ENG APPR.							
				MFG APPR.							
				Q.A.			SIZE	PART NUMBER:	REV		
				COMMENTS:			B				
NEXT ASSY		USED ON		FINISH		DO NOT SCALE DRAWING		WEIGHT: 437.93		SHEET 1 OF 1	

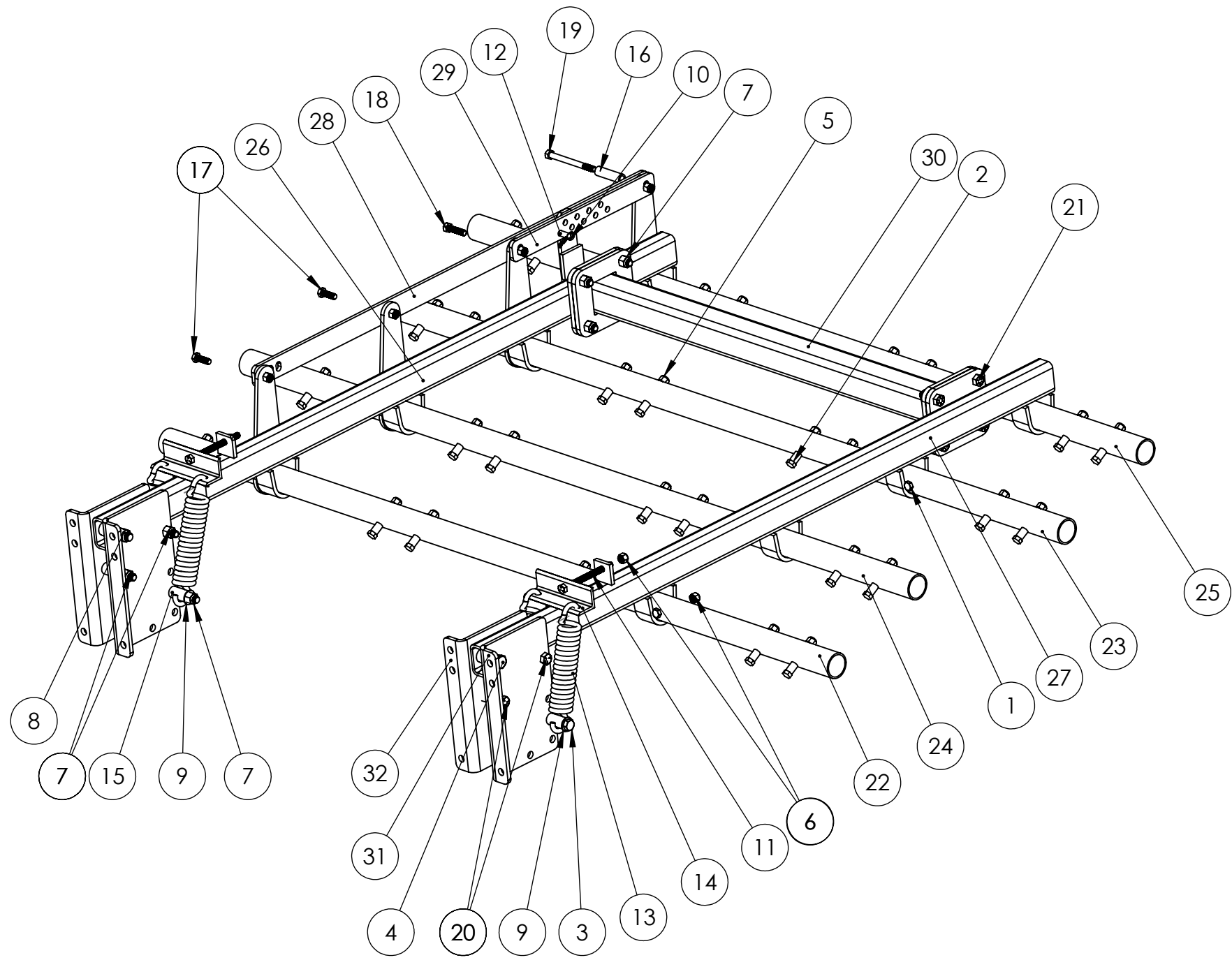
D

C

B

A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120092	Bolt 1/2-13 x 3 GR5 PLTD	2
2	120094	1/2" x 3.75" Shoulder Bolt	32
3	120106	Bolt 5/8-11 x 8 GR5 PLTD	2
4	120112	Bolt 3/4-10 x 4 GR5 PLTD	2
5	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD	32
6	120137	Nut Nylock 1/2-13 GR5 PLTD	8
7	120138	Nut Nylock 5/8-11 GR5 PLTD	14
8	120140	Nut Nylock 3/4-10 GR5 PLTD	2
9	120151	Washer Flat 5/8 PLTD	4
10	120160	Pin Hair Pin Clip #16	1
11	120163	Continuous Thread Bolt 1/2-13 x 6 GR5 PLTD	2
12	120164	Pin Clevis 1/2 X 2 PLTD	1
13	120238	Tension Spring .4375 x 10-3/4	4
14	120336	Tension Tightner	2
15	120376	Spacer 3/4 ID x 2.0625	10
16	120387	Adjustment Spacer	1
17	121091	Bolt 1/2-13 x 1-1/2 GR5 PLTD	2
18	121093	Bolt 1/2-13 x 2 GR5 PLTD	1
19	121098	Bolt 1/2-13 x 5-1/2 GR5 PLTD	1
20	121130	Bolt 5/8-11 x 4 GR5 PLTD	4
21	121776	Bolt 5/8-11 x 2 GR8 YZ PLTD	8
22	122210	Harrow Pipe, DBH, 8' 4 Bar #1	1
23	122211	Harrow Pipe, DBH, 8' 4 Bar #2	1
24	122212	Harrow Pipe, DBH, 8' 4 Bar #3	1
25	122213	Harrow Pipe, DBH, 8' 4 Bar #4	1
26	123195	4 Bar Drawbar Arm Manual Tine Adj. Right	1
27	123719	4 Bar Drawbar Arm Left	1
28	123811	Linkage Manual Tine Adjust 4 Bar	1
29	123813	Linkage Manual Tine Adjust Rear Adjustment Plate	1
30	125216	8' Stabilizer Bar 5/8 Bolt Mount	1
31	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material	2
32	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material	2



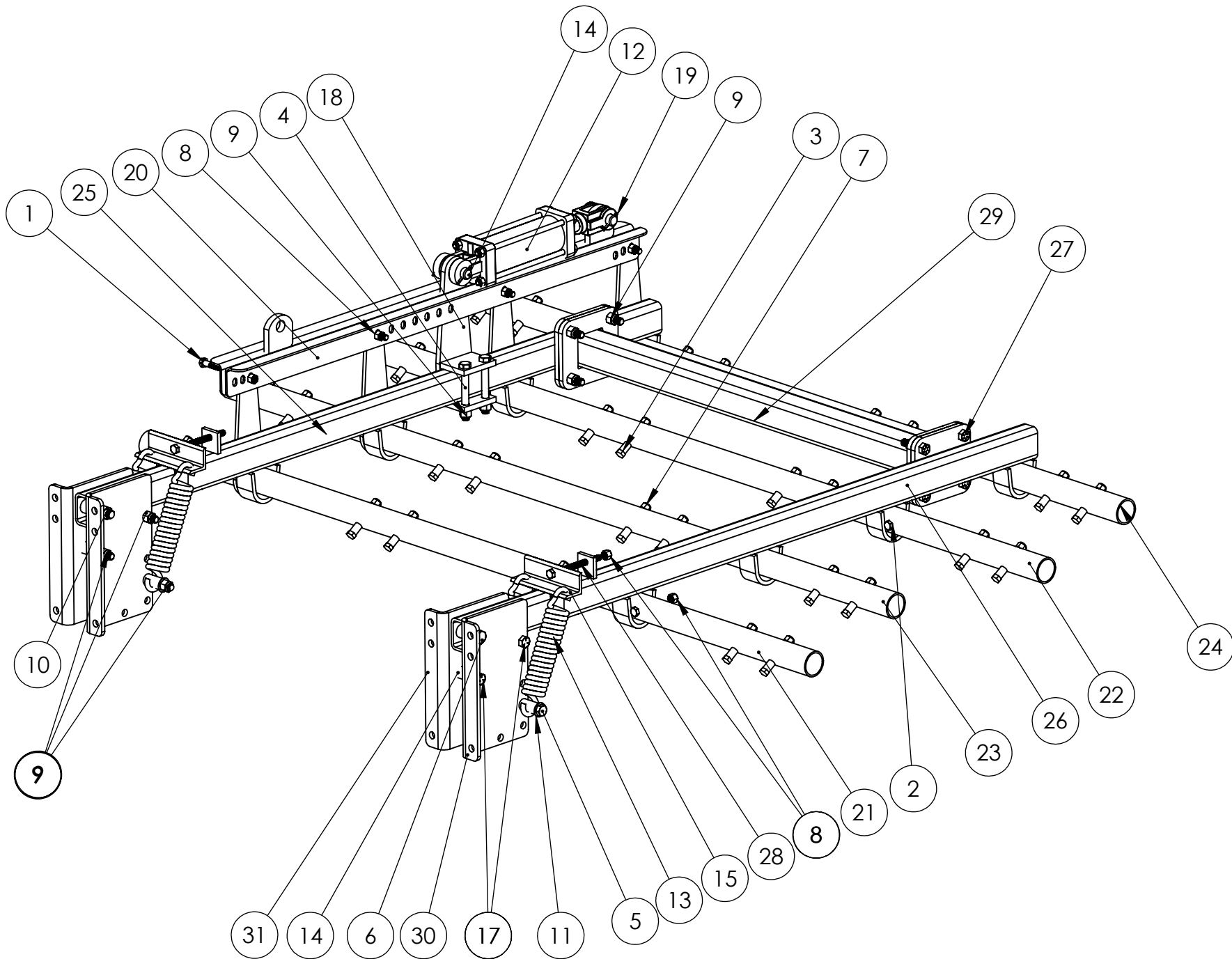
PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		SCALE: 1:12		NAME		DATE	
		DIMENSIONS ARE IN INCHES		DRAWN					
		TOLERANCES:		CHECKED					
		FRACTIONAL ±1/8		ENG APPR.					
		ANGULAR: MACH ±2 BEND ±2		MFG APPR.					
		TWO PLACE DECIMAL ±.01		Q.A.					
		THREE PLACE DECIMAL ±.005		COMMENTS:					
		THIRD ANGLE							
		MATERIAL							
		FINISH							
NEXT ASSY		USED ON							
APPLICATION		DO NOT SCALE DRAWING							

DESCRIPTION: 8' 4 Bar Drawbar Section Manual Tine Adjust		
SIZE B	PART NUMBER:	REV
WEIGHT: 374.119		SHEET 1 OF 1

	8	7	6	5	4	3	2	1	18
	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.					
	1	120090	Bolt 1/2"-13 x 2" GR8 PLTD	4					
	2	120092	Bolt 1/2-13 x 3 GR5 PLTD	2					
	3	120094	1/2" x 3.75" Shoulder Bolt	32					
D	4	120102	Bolt 5/8-11 x 5 GR8 PLTD	2					
	5	120106	Bolt 5/8-11 x 8 GR5 PLTD	2					
	6	120112	Bolt 3/4-10 x 4 GR5 PLTD	2					
	7	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD	32					
	8	120137	Nut Nylock 1/2-13 GR5 PLTD	8					
	9	120138	Nut Nylock 5/8-11 GR5 PLTD	16					
	10	120140	Nut Nylock 3/4-10 GR5 PLTD	2					
	11	120151	Washer Flat 5/8 PLTD	4					
	12	120174	Cylinder 3 x 6x 1-1/4 Tie Rod Double Rephasing DBH	1					
	13	120238	Tension Spring .4375 x 10-3/4	4					
C	14	120333	Cylinder Pin 1 x 3-3/4 3 Usable	2					
	15	120336	Tension Tightner	2					
	14	120376	Spacer 3/4 ID x 2.0625	10					
	17	121130	Bolt 5/8-11 x 4 GR5 PLTD	4					
	18	121520	Hydraulic Tine Adjustment Stationary Ear	1					
	19	121807	Cotter Pin 3/16 x 1-1/2	4					
	20	122179	4 Bar Hydraulic Tine Linkage	1					
	21	122210	Harrow Pipe, DBH, 8' 4 Bar #1	1					
	22	122211	Harrow Pipe, DBH, 8' 4 Bar #2	1					
	23	122212	Harrow Pipe, DBH, 8' 4 Bar #3	1					
B	24	122213	Harrow Pipe, DBH, 8' 4 Bar #4	1					
	25	123196	4 Bar Drawbar Arm Hydraulic Tine Adj. Right	1					
	26	123719	4 Bar Drawbar Arm Left	1					
	27	123867	Bolt 5/8-11 x 2-1/2 GR8 YZ PLTD	8					
	28	124747	Bolt 1/2-13 x 6 Fully Threaded GR5 PLTD	2					
	29	125216	8' Stabilizer Bar 5/8 Bolt Mount	1					
	30	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material	2					
	31	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material	2					



A

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	SCALE: 1:12	NAME	DATE			
		DIMENSIONS ARE IN INCHES	DRAWN	Britta	6/26/2015			
		TOLERANCES:	CHECKED					
		FRACTIONAL ±1/8	ENG APPR.					
		ANGULAR: MACH ±2 BEND ±2	MFG APPR.					
		TWO PLACE DECIMAL ±.01	Q.A.			DESCRIPTION: 8' 4 Bar Drawbar Section Hydraulic Tine Adjust		
		THREE PLACE DECIMAL ±.005	COMMENTS:					
		THIRD ANGLE				SIZE	PART NUMBER:	REV
						B		
		MATERIAL				WEIGHT: 403.97		
		FINISH				SHEET 1 OF 1		
	NEXT ASSY	USED ON						
	APPLICATION		DO NOT SCALE DRAWING					

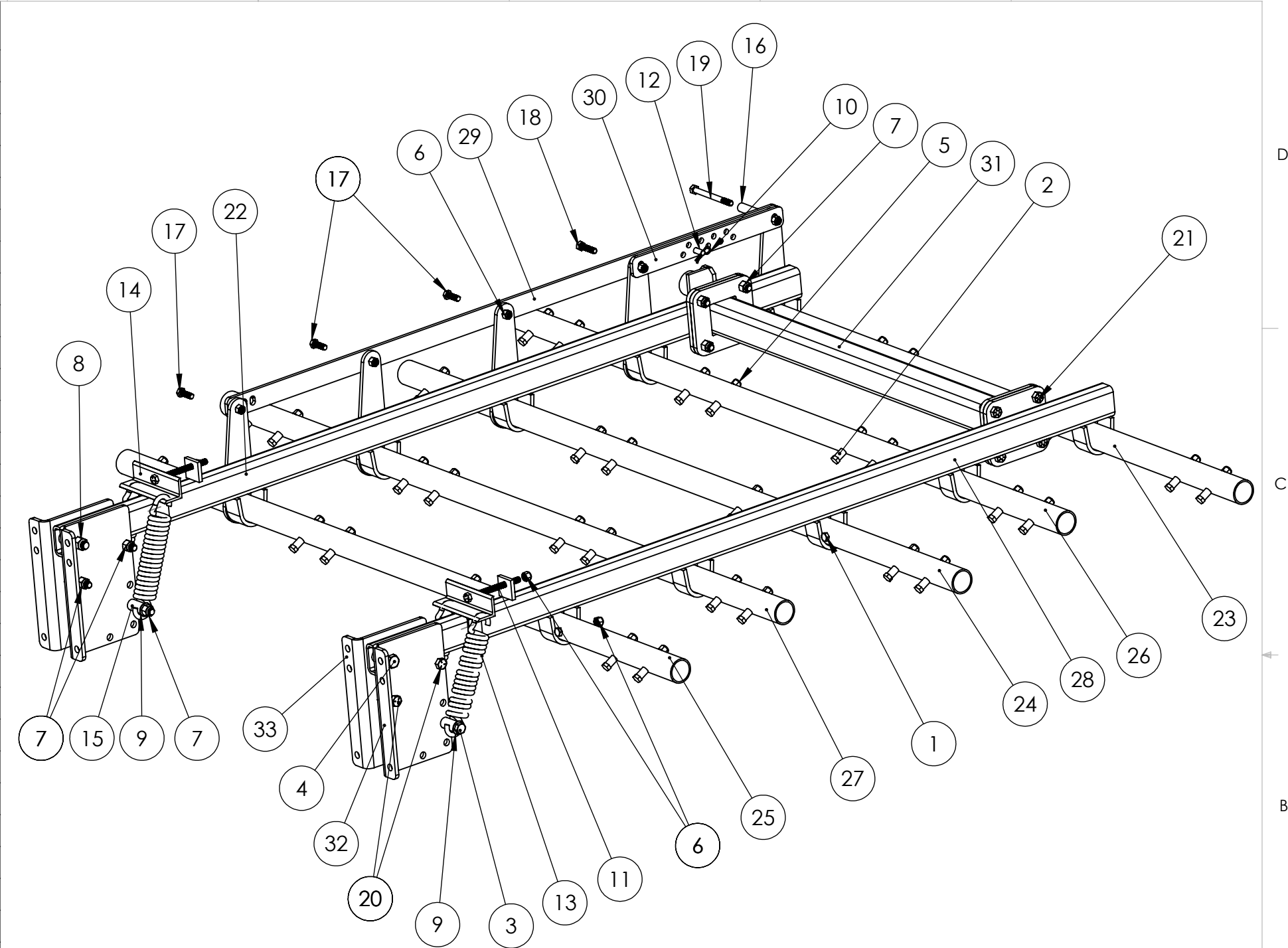
D

C

B

A

	8	7	6	5	4	3	2	1	19
ITEM NO.	PART NUMBER	DESCRIPTION		QTY.					
1	120092	Bolt 1/2-13 x 3 GR5 PLTD		2					
2	120094	1/2" x 3.75" Shoulder Bolt		40					
3	120106	Bolt 5/8-11 x 8 GR5 PLTD		2					
4	120112	Bolt 3/4-10 x 4 GR5 PLTD		2					
5	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD		40					
6	120137	Nut Nylock 1/2-13 GR5 PLTD		9					
7	120138	Nut Nylock 5/8-11 GR5 PLTD		14					
8	120140	Nut Nylock 3/4-10 GR5 PLTD		2					
9	120151	Washer Flat 5/8 PLTD		4					
10	120160	Pin Hair Pin Clip #16		1					
11	120163	Continuous Thread Bolt 1/2-13 x 6 GR5 PLTD		2					
12	120164	Pin Clevis 1/2 X 2 PLTD		1					
13	120238	Tension Spring .4375 x 10-3/4		4					
14	120336	Tension Tightner		2					
15	120376	Spacer 3/4 ID x 2.0625		10					
16	120387	Adjustment Spacer		1					
17	121091	Bolt 1/2-13 x 1-1/2 GR5 PLTD		3					
18	121093	Bolt 1/2-13 x 2 GR5 PLTD		1					
19	121098	Bolt 1/2-13 x 5-1/2 GR5 PLTD		1					
20	121130	Bolt 5/8-11 x 4 GR5 PLTD		4					
21	121776	Bolt 5/8-11 x 2 GR8 YZ PLTD		8					
22	122159	5 Bar Drawbar Arm Manual Tine Adj. Right		1					
23	122214	Harrow Pipe, DBH, 8' 5 Bar #1		1					
24	122215	Harrow Pipe, DBH, 8' 5 Bar #2		1					
25	122216	Harrow Pipe, DBH, 8' 5 Bar #3		1					
26	122217	Harrow Pipe, DBH, 8' 5 Bar #4		1					
27	122218	Harrow Pipe, DBH, 8' 5 Bar #5		1					
28	123720	5 Bar Drawbar Arm Left		1					
29	123812	Linkage Manual Tine Adjust Rear Adjustment Plate		1					
30	123813	Linkage Manual Tine Adjust Rear Adjustment Plate		1					
31	125216	8' Stabilizer Bar 5/8 Bolt Mount		1					
32	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material		2					
33	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material		2					



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	SCALE: 1:12	NAME	DATE	 DESCRIPTION: 8' 5 Bar Drawbar Section Manual Tine Adjust	
		DIMENSIONS ARE IN INCHES	DRAWN	Britta	6/7/2016		
		TOLERANCES:	CHECKED				
		FRACTIONAL ±1/8	ENG APPR.				
		ANGULAR: MACH ±2 BEND ±2	MFG APPR.				
		TWO PLACE DECIMAL ±.01	Q.A.			SIZE	PART NUMBER:
		THREE PLACE DECIMAL ±.005	COMMENTS:			B	REV
		THIRD ANGLE				WEIGHT: 432.23	
						SHEET 1 OF 1	
		MATERIAL					
		FINISH					
NEXT ASSY	USED ON						
APPLICATION		DO NOT SCALE DRAWING					

8

7

6

5

4

3

2

1

20

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120092	Bolt 1/2-13 x 3 GR5 PLTD	2
2	120094	1/2" x 3.75" Shoulder Bolt	40
3	120106	Bolt 5/8-11 x 8 GR5 PLTD	2
4	120112	Bolt 3/4-10 x 4 GR5 PLTD	2
5	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD	40
6	120137	Nut Nylock 1/2-13 GR5 PLTD	9
7	120138	Nut Nylock 5/8-11 GR5 PLTD	17
8	120140	Nut Nylock 3/4-10 GR5 PLTD	1
9	120151	Washer Flat 5/8 PLTD	4
10	120163	Continuous Thread Bolt 1/2-13 x 6 GR5 PLTD	2
11	120174	Cylinder 3 x 6x 1-1/4 Tie Rod Double Rephasing DBH	1
12	120238	Tension Spring .4375 x 10-3/4	4
13	120333	Cylinder Pin 1 x 3-3/4 3 Usable	2
14	120336	Tension Tightner	2
15	120376	Spacer 3/4 ID x 2.0625	10
16	121093	Bolt 1/2-13 x 2 GR5 PLTD	5
17	121130	Bolt 5/8-11x4 GR5 PLTD	4
18	121132	Bolt 5/8-11 x 5 GR5 PLTD	2
19	121520	Hydraulic Tine Adjustment Stationary Ear	1
20	121776	Bolt 5/8-11 x 2 GR8 YZ PLTD	8
21	121807	Cotter Pin 3/16 x 1-1/2	4
22	122160	5 Bar Drawbar Arm Hydraulic Tine Adj. Right	1
23	122180	5 Bar Hydraulic Tine Linkage	1
24	122214	Harrow Pipe, DBH, 8' 5 Bar #1	1
25	122215	Harrow Pipe, DBH, 8' 5 Bar #2	1
26	122216	Harrow Pipe, DBH, 8' 5 Bar #3	1
27	122217	Harrow Pipe, DBH, 8' 5 Bar #4	1
28	122218	Harrow Pipe, DBH, 8' 5 Bar #5	1
29	123720	5 Bar Drawbar Arm Left	1
30	125216	8' Stabilizer Bar 5/8 Bolt Mount	1
31	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material	2
32	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material	2

Exploded view diagram of the 8' 5 Bar Drawbar Section Hydraulic Tine Adjust assembly. The diagram shows the main frame with two hydraulic cylinders (11, 19) and various linkages (22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32) and harrow pipes (2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32). Callouts 1 through 32 point to specific parts listed in the table.

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	SCALE: 1:12	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN		
		TOLERANCES:	CHECKED		
		FRACTIONAL ±1/8	ENG APPR.		
		ANGULAR: MACH ±2 BEND ±2	MFG APPR.		
		TWO PLACE DECIMAL ±.01	Q.A.		
		THREE PLACE DECIMAL ±.005	COMMENTS:		
		THIRD ANGLE			
		MATERIAL			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

DESCRIPTION:
8' 5 Bar Drawbar Section Hydraulic Tine Adjust

SIZE
B

PART NUMBER:

REV

WEIGHT: 491.57

SHEET 1 OF 1

2020

8

7

6

5

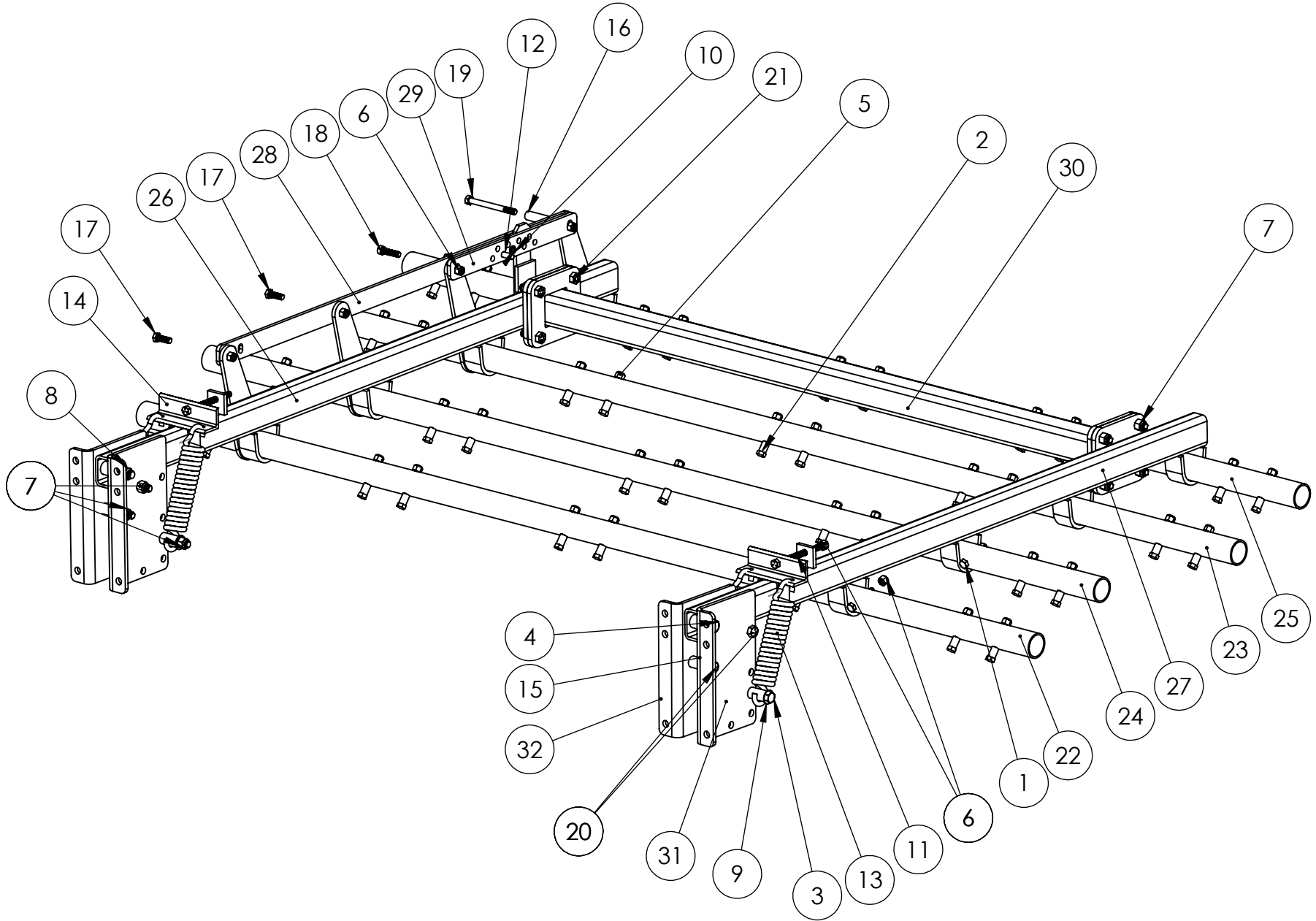
4

3

2

1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120092	Bolt 1/2-13 x 3 GR5 PLTD	2
2	120094	1/2" x 3.75" Shoulder Bolt	40
3	120106	Bolt 5/8-11 x 8 GR5 PLTD	2
4	120112	Bolt 3/4-10 x 4 GR5 PLTD	2
5	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD	40
6	120137	Nut Nylock 1/2-13 GR5 PLTD	8
7	120138	Nut Nylock 5/8-11 GR5 PLTD	13
8	120140	Nut Nylock 3/4-10 GR5 PLTD	2
9	120151	Washer Flat 5/8 PLTD	4
10	120160	Pin Hair Pin Clip #16	1
11	120163	Continuous Thread Bolt 1/2-13 x 6 GR5 PLTD	2
12	120164	Pin Clevis 1/2 X 2 PLTD	1
13	120238	Tension Spring .4375 x 10-3/4	4
14	120336	Tension Tightner	2
15	120376	Spacer 3/4 ID x 2.0625	10
16	120387	Adjustment Spacer	1
17	121091	Bolt 1/2-13 x 1-1/2 GR5 PLTD	2
18	121093	Bolt 1/2-13x2 GR5 PLTD	1
19	121098	Bolt 1/2-13x5-1/2 GR5 PLTD	1
20	121130	Bolt 5/8-11 x 4 GR5 PLTD	4
21	121776	Bolt 5/8-11 x 2 GR8 YZ PLTD	8
22	122219	Harrow Pipe, DBH, 10' 4 Bar #1	1
23	122220	Harrow Pipe, DBH, 10' 4 Bar #2	1
24	122221	Harrow Pipe, DBH, 10' 4 Bar #3	1
25	122222	Harrow Pipe, DBH, 10' 4 Bar #4	1
26	123195	4 Bar Drawbar Arm Manual Tine Adj. Right	1
27	123719	4 Bar Drawbar Arm Left	1
28	123811	Linkage Manual Tine Adjust 4 Bar	1
29	123813	Linkage Manual Tine Adjust Rear Adjustment Plate	1
30	125217	10' Stabilizer Bar 5/8 Bolt Mount	1
31	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material	2
32	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material	2

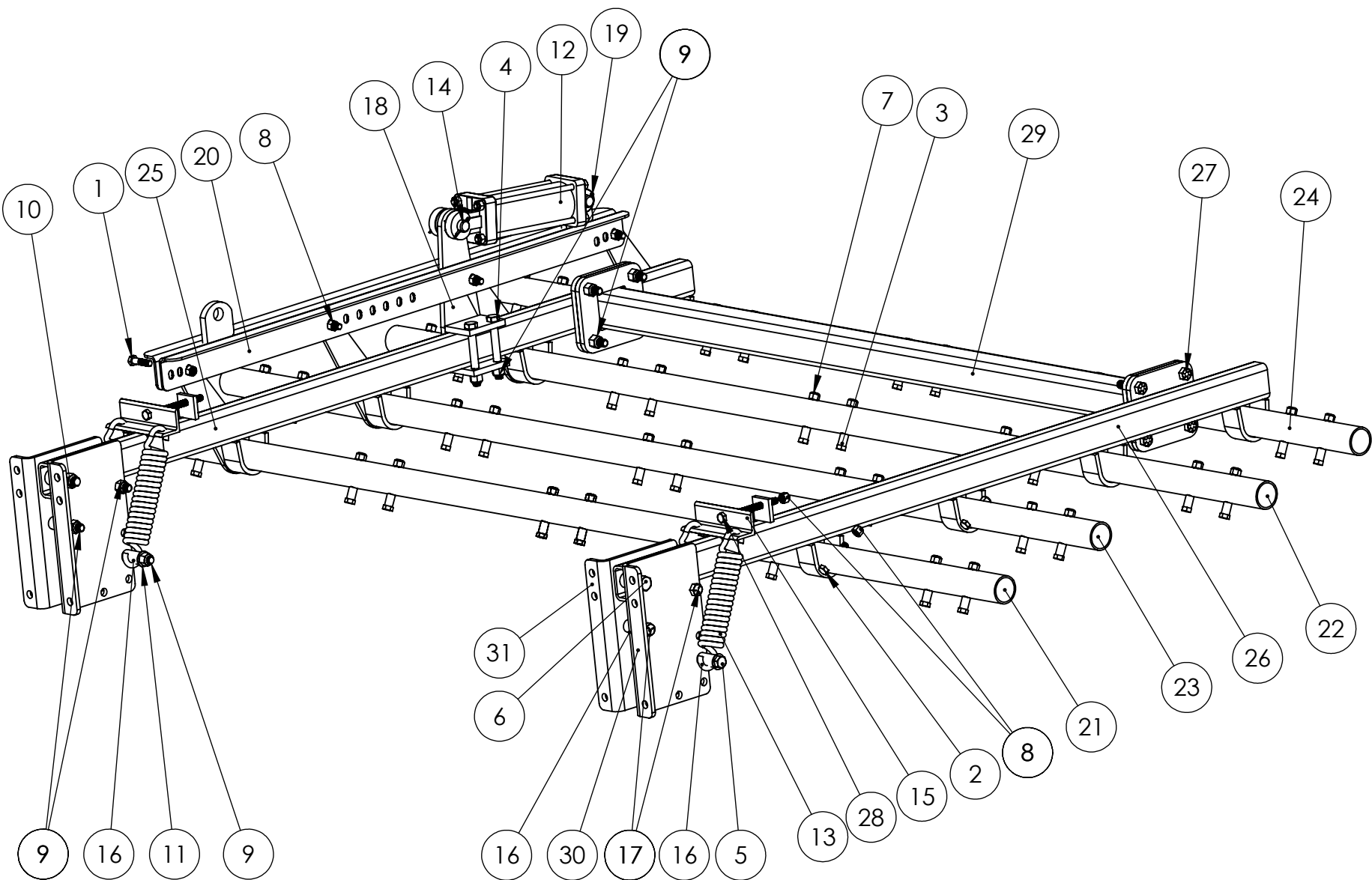


PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.		UNLESS OTHERWISE SPECIFIED:		SCALE: 1:13		NAME	DATE
		DIMENSIONS ARE IN INCHES		DRAWN			
		TOLERANCES:		CHECKED			
		FRACTIONAL ±1/8		ENG APPR.			
		ANGULAR: MACH ±2 BEND ±2		MFG APPR.			
		THIRD ANGLE		Q.A.			
				COMMENTS:			
		MATERIAL					
		FINISH					
NEXT ASSY	USED ON						
APPLICATION		DO NOT SCALE DRAWING					

DESCRIPTION: 10' 4 Bar Drawbar Section Manual Tine Adjust			
SIZE B	PART NUMBER:		REV
WEIGHT: 324.991			SHEET 1 OF 1

	8	7	6	5	4	3	2	1	22
	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.					
	1	120090	Bolt 1/2-13 x 2 GR8 PLTD	4					
	2	120092	Bolt 1/2-13 x 3 GR5 PLTD	2					
	3	120094	1/2" x 3.75" Shoulder Bolt	46					
D	4	120102	Bolt 5/8-11 x 5 GR8 PLTD	2					
	5	120106	Bolt 5/8-11 x 8 GR5 PLTD	2					
	6	120112	Bolt 3/4-10 x 4 GR5 PLTD	2					
	7	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD	46					
	8	120137	Nut Nylock 1/2-13 GR5 PLTD	8					
	9	120138	Nut Nylock 5/8-11 GR5 PLTD	16					
	10	120140	Nut Nylock 3/4-10 GR5 PLTD	2					
	11	120151	Washer Flat 5/8 PLTD	4					
	12	120174	Cylinder 3 x 6x 1-1/4 Tie Rod Double Rephasing DBH	1					
C	13	120238	Tension Spring .4375 x 10-3/4	4					
	14	120333	Cylinder Pin 1 x 3-3/4 3 Usable	2					
	15	120336	Tension Tightner	2					
	16	120376	Spacer 3/4 ID x 2.0625	10					
	17	121130	Bolt 5/8-11 x 4 GR5 PLTD	4					
	18	121520	Hydraulic Tine Adjustment Stationary Ear	1					
	19	121807	Cotter Pin 3/16 x 1-1/2	4					
	20	122179	4 Bar Hydraulic Tine Linkage	1					
	21	122219	Harrow Pipe, DBH, 10' 4 Bar #1	1					
	22	122220	Harrow Pipe, DBH, 10' 4 Bar #2	1					
B	23	122221	Harrow Pipe, DBH, 10' 4 Bar #3	1					
	24	122222	Harrow Pipe, DBH, 10' 4 Bar #4	1					
	25	123196	4 Bar Drawbar Arm Hydraulic Tine Adj. Right	1					
	26	123719	4 Bar Drawbar Arm Left	1					
	27	123867	Bolt 5/8-11 x 2-1/2 GR8 YZ PLTD	8					
	28	124747	Bolt 1/2-13 x 6 Fully Threaded GR5 PLTD	2					
	29	125217	10' Stabilizer Bar 5/8 Bolt Mount	1					
	30	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material	2					
	31	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material	2					

A



D

C

B

A

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	SCALE: 1:12	NAME	DATE	 DESCRIPTION: 10' 4 Bar Drawbar Section Hydraulic Tine Adjust		
		DIMENSIONS ARE IN INCHES	DRAWN	Britta	6/26/2015			
		TOLERANCES:	CHECKED					
		FRACTIONAL ±1/8	ENG APPR.					
		ANGULAR: MACH ±2 BEND ±2	MFG APPR.					
		TWO PLACE DECIMAL ±.01	Q.A.			SIZE	PART NUMBER:	REV
		THREE PLACE DECIMAL ±.005	COMMENTS:			B		
		THIRD ANGLE				WEIGHT: 357.04 SHEET 1 OF 1		
								
		MATERIAL						
		FINISH						
	NEXT ASSY	USED ON						
	APPLICATION		DO NOT SCALE DRAWING					

8

7

6

5

4

3

2

1

23

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120092	Bolt 1/2-13 x 3 GR5 PLTD	2
2	120094	1/2" x 3.75" Shoulder Bolt	50
3	120106	Bolt 5/8-11 x 8 GR5 PLTD	2
4	120112	Bolt 3/4-10 x 4 GR5 PLTD	2
5	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD	50
6	120137	Nut Nylock 1/2-13 GR5 PLTD	9
7	120138	Nut Nylock 5/8-11 GR5 PLTD	14
8	120140	Nut Nylock 3/4-10 GR5 PLTD	2
9	120151	Washer Flat 5/8 PLTD	4
10	120160	Pin Hair Pin Clip #16	1
11	120163	Continuous Thread Bolt 1/2-13 x 6 GR5 PLTD	2
12	120164	Pin Clevis 1/2 X 2 PLTD	1
13	120238	Tension Spring .4375 x 10-3/4	4
14	120336	Tension Tightner	2
15	120376	Spacer 3/4 ID x 2.0625	10
16	120387	Adjustment Spacer	1
17	121091	Bolt 1/2-13 x 1-1/2 GR5 PLTD	3
18	121093	Bolt 1/2-13 x 2 GR5 PLTD	1
19	121098	Bolt 1/2-13 x 5-1/2 GR5 PLTD	1
20	121130	Bolt 5/8-11 x 4 GR5 PLTD	4
21	121776	Bolt 5/8-11 x 2 GR8 YZ PLTD	8
22	122159	5 Bar Drawbar Arm Manual Tine Adj. Right	1
23	122223	Harrow Pipe, DBH, 10' 5 Bar #1	1
24	122224	Harrow Pipe, DBH, 10' 5 Bar #2	1
25	122225	Harrow Pipe, DBH, 10' 5 Bar #3	1
26	122226	Harrow Pipe, DBH, 10' 5 Bar #4	1
27	122227	Harrow Pipe, DBH, 10' 5 Bar #5	1
28	123720	5 Bar Drawbar Arm Left	1
29	123812	Linkage Manual Tine Adjust Rear Adjustment Plate	1
30	123813	Linkage Manual Tine Adjust Rear Adjustment Plate	1
31	125217	10' Stabilizer Bar 5/8 Bolt Mount	1
32	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material	2
33	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material	2

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/8 ANGULAR: MACH ±2 TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005 THIRD ANGLE MATERIAL FINISH	SCALE: 1:15 DRAWN CHECKED ENG APPR. MFG APPR. Q.A. COMMENTS:	NAME DATE
NEXT ASSY	USED ON			
APPLICATION		DO NOT SCALE DRAWING		

DESCRIPTION:
10' 5 Bar Drawbar Section
Manual Tine Adjust

SIZE B	PART NUMBER:	REV
WEIGHT: 485.54		SHEET 1 OF 1

2020

8

7

6

5

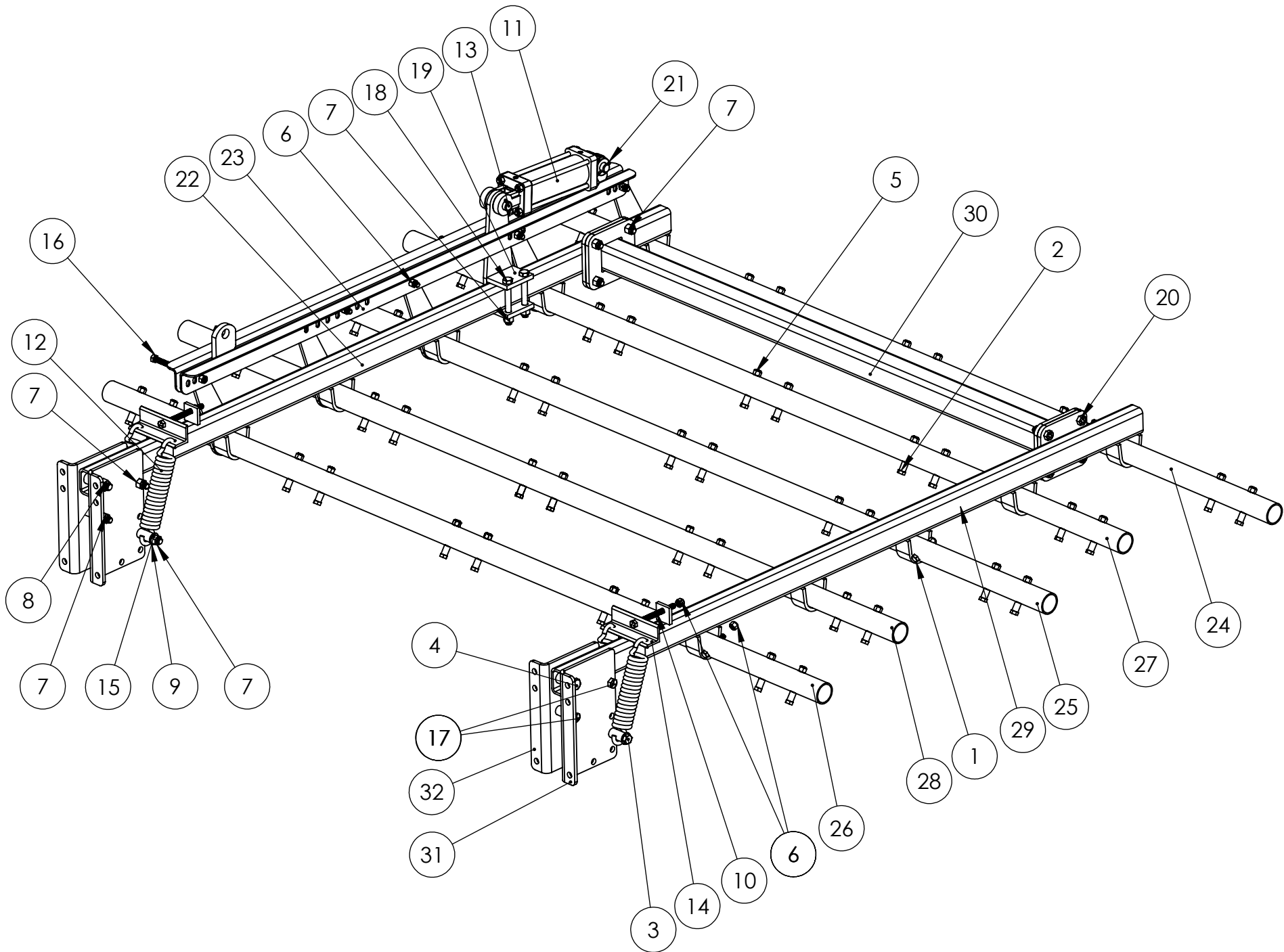
4

3

2

1

	8	7	6	5	4	3	2	1	24
	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.					
	1	120092	Bolt 1/2-13 x 3 GR5 PLTD	2					
	2	120094	1/2" x 3.75" Shoulder Bolt	80					
D	3	120106	Bolt 5/8-11 x 8 GR5 PLTD	2					
	4	120112	Bolt 3/4-10 x 4 GR5 PLTD	2					
	5	120136	Nut Nylock 1/2-13 GR5 YELLOW PLTD	80					
	6	120137	Nut Nylock 1/2-13 GR5 PLTD	9					
	7	120138	Nut Nylock 5/8-11 GR5 PLTD	16					
	8	120140	Nut Nylock 3/4-10 GR5 PLTD	2					
	9	120151	Washer Flat 5/8 PLTD	4					
	10	120163	Continuous Thread Bolt 1/2-13 x 6 GR5 PLTD	2					
	11	120174	Cylinder 3 x 6 x1-1/4 Tie Rod Double Rephasing DBH	1					
C	12	120238	Tension Spring .4375 x 10-3/4	4					
	13	120333	Cylinder Pin 1 x 3-3/4 3 Usable	2					
	14	120336	Tension Tightner	2					
	15	120376	Spacer 3/4 ID x 2.0625	10					
	16	121093	Bolt 1/2-13 x 2 GR5 PLTD	5					
	17	121130	Bolt 5/8-11 x 4 GR5 PLTD	4					
	18	121132	Bolt 5/8-11 x 5 GR5 PLTD	2					
	19	121520	Hydraulic Tine Adjustment Stationary Ear	1					
	20	121776	Bolt 5/8-11 x 2 GR8 YZ PLTD	8					
B	21	121807	Cotter Pin 3/16 x 1-1/2	4					
	22	122160	5 Bar Drawbar Arm Hydraulic Tine Adj. Right	1					
	23	122180	5 Bar Hydraulic Tine Linkage	1					
	24	122223	Harrow Pipe, DBH, 10' 5 Bar #1	1					
	25	122224	Harrow Pipe, DBH, 10' 5 Bar #2	1					
	26	122225	Harrow Pipe, DBH, 10' 5 Bar #3	1					
	27	122226	Harrow Pipe, DBH, 10' 5 Bar #4	1					
	28	122227	Harrow Pipe, DBH, 10' 5 Bar #5	1					
	29	123720	5 Bar Drawbar Arm Left	1					
A	30	125217	10' Stabilizer Bar 5/8 Bolt Mount	1					
	31	125945	Drawbar Harrow Frame Bracket, Left, 8, 10 Tube 3/8 Material	2					
	32	125946	Drawbar Harrow Frame Bracket, Right, 8, 10 Tube 3/8 Material	2					



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	SCALE: 1:14	NAME	DATE				
		DIMENSIONS ARE IN INCHES	DRAWN	Britta	6/2/2016				
		TOLERANCES:	CHECKED						
		FRACTIONAL ±1/8	ENG APPR.						
		ANGULAR: MACH ±2 BEND ±2	MFG APPR.						
		TWO PLACE DECIMAL ±.01	Q.A.			DESCRIPTION: 10' 5 Bar Drawbar Section Hydraulic Tine Adjust			
		THREE PLACE DECIMAL ±.005	COMMENTS:						
		THIRD ANGLE				SIZE B	PART NUMBER:	REV	
		MATERIAL				WEIGHT: 555.38			
		FINISH				SHEET 1 OF 1			
	NEXT ASSY	USED ON							
	APPLICATION		DO NOT SCALE DRAWING						

D

D

C

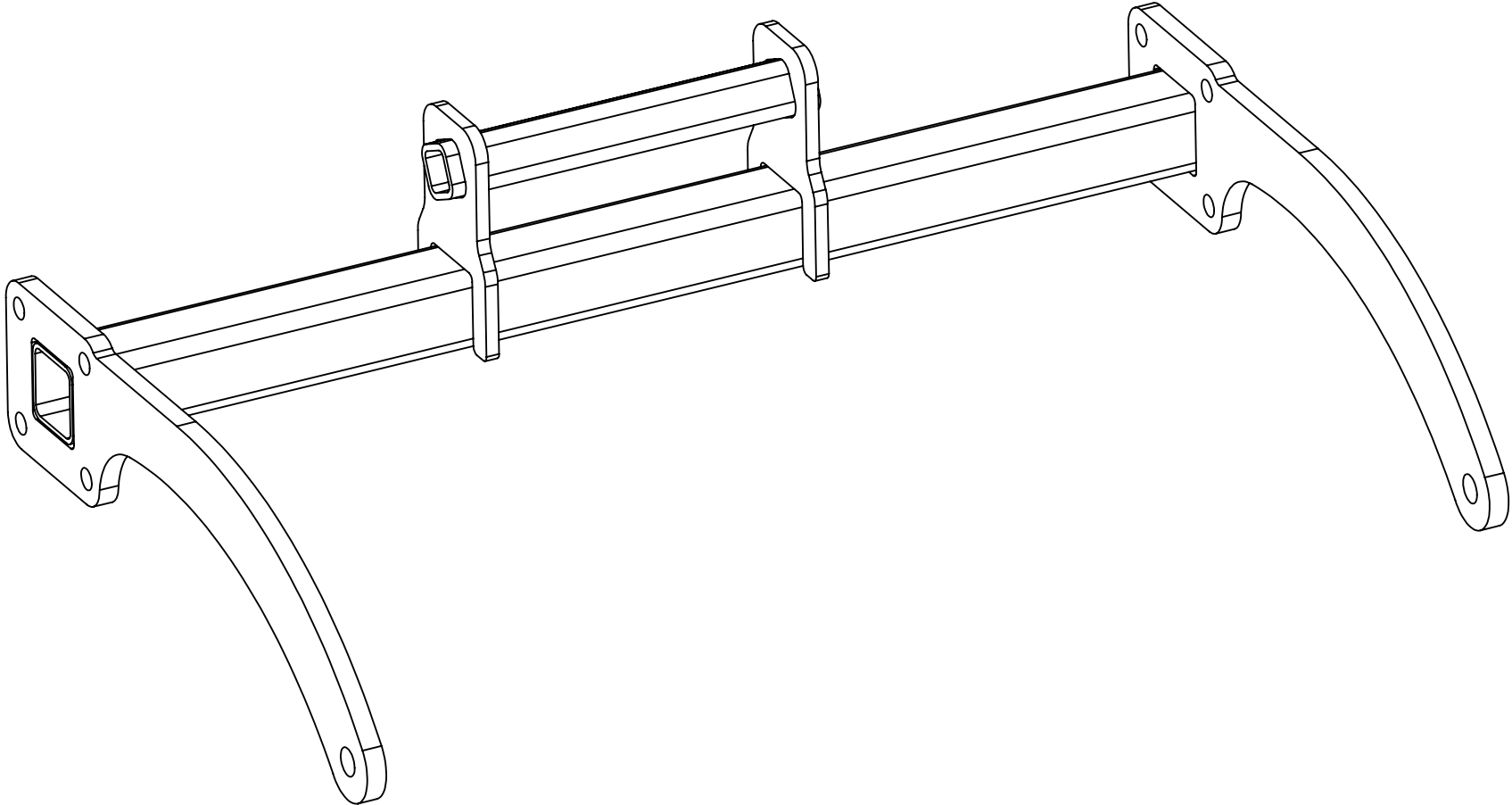
C

B

B

A

A



PART NUMBER	DESCRIPTION
124077	6' Drawbar Section Stabilizer Bar Rolling Basket Mount
124078	8' Drawbar Section Stabilizer Bar Rolling Basket Mount
124079	10' Drawbar Section Stabilizer Bar Rolling Basket Mount

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL $\pm 1/8$
ANGULAR: MACH ± 2 BEND ± 2
TWO PLACE DECIMAL $\pm .01$
THREE PLACE DECIMAL $\pm .005$
THIRD ANGLE



MATERIAL

FINISH

DO NOT SCALE DRAWING

SCALE: 1:1

DRAWN

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:

NAME

Britta

DATE

4-24-2015



DESCRIPTION:
5/8" Bolt Mount Stabilizer
Bars with Basket Mount

SIZE

B See Table

PART NUMBER:

REV

WEIGHT: 79.98

SHEET 1 OF 1

D

D

C

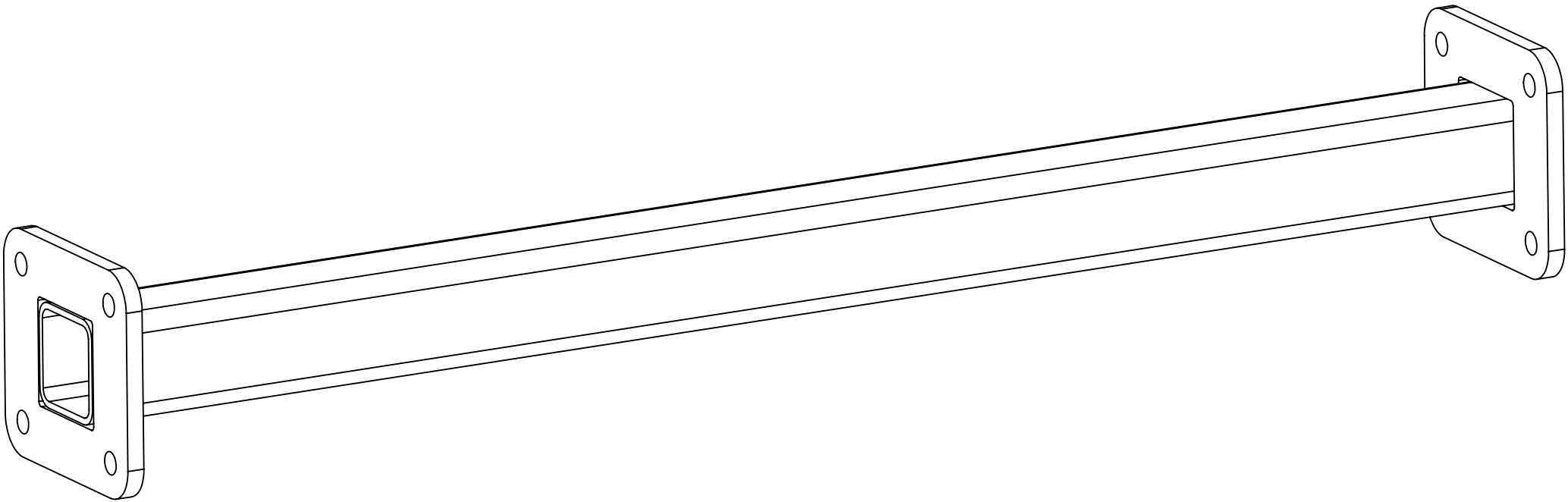
C

B

B

A

A



PART NUMBER	DESCRIPTION
125215	6' Drawbar Section Stabilizer Bar 5/8 Bolt Mount
125216	8' Drawbar Section Stabilizer Bar 5/8 Bolt Mount
125217	10' Drawbar Section Stabilizer Bar 5/8 Bolt Mount

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/8 ANGULAR: MACH ±2 BEND ±2 TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005 THIRD ANGLE  MATERIAL FINISH DO NOT SCALE DRAWING	SCALE: 1:1	NAME	DATE	 DESCRIPTION: 5/8" Bolt Mount Stabilizer Bar without Baskets SIZE PART NUMBER: REV B See Table WEIGHT: 34.70 SHEET 1 OF 1
			DRAWN	Britta	7/9/2015	
			CHECKED			
			ENG APPR.			
			MFG APPR.			
			Q.A.			
			COMMENTS:			
NEXT ASSY	USED ON					
APPLICATION						

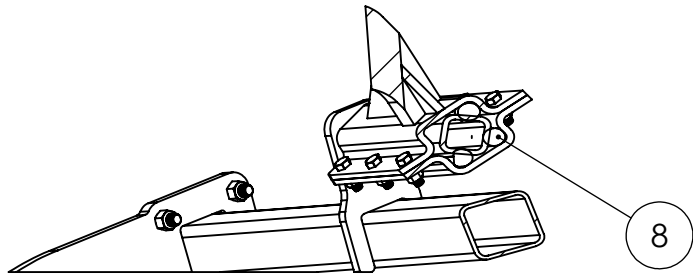
B

A

AA

A

D



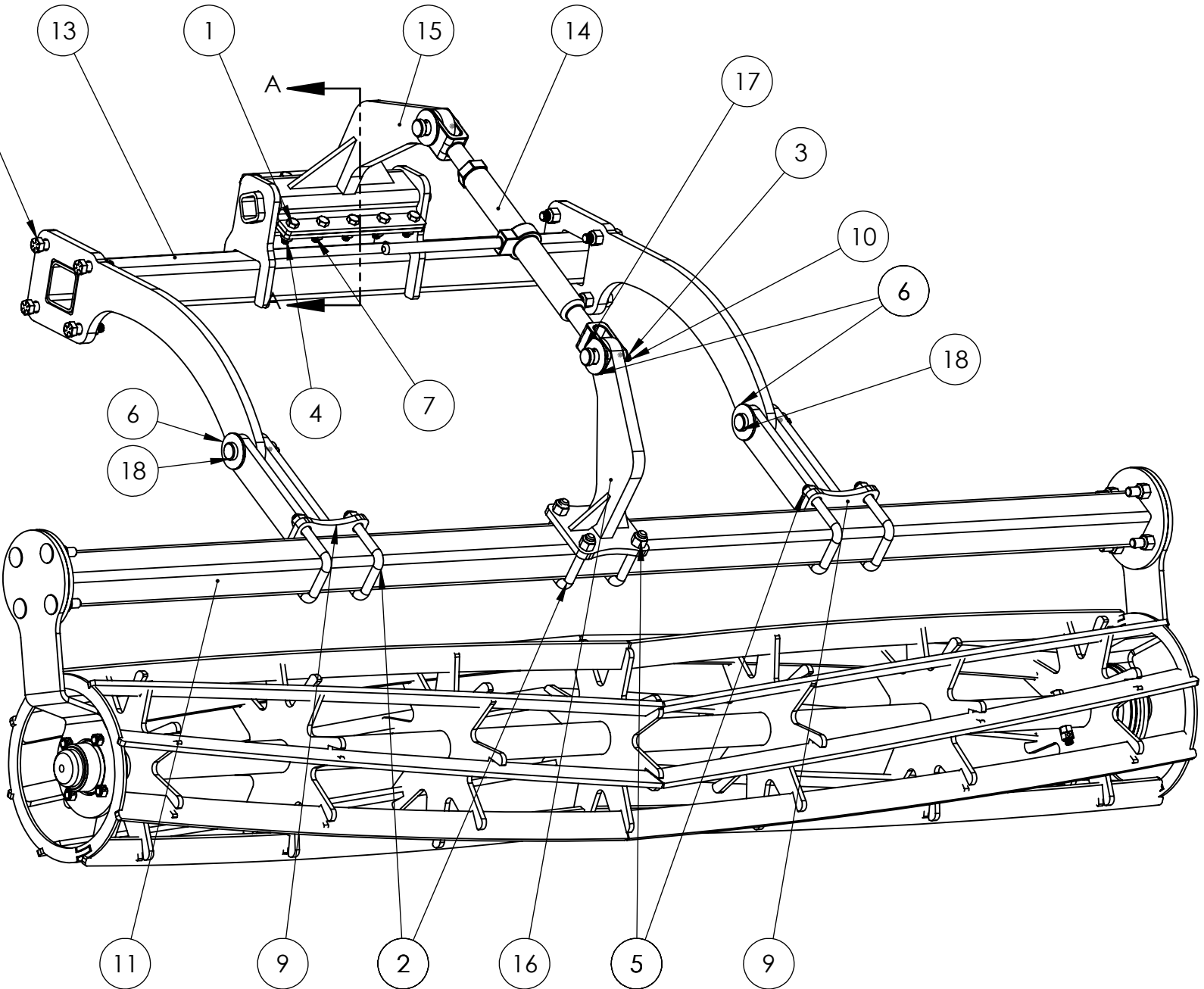
SECTION A-A

C

B

A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120088	Bolt 1/2-13 x 1-1/2 GR8 PLTD	10
2	120128	U-Bolt 5/8-11 x 3 x 4-1/2 SQR Bend PLTD	6
3	120131	NUut Nylock 1/4-20 GR5 PLTD	4
4	120137	Nut Nylock 1/2-13 GR5 PLTD	10
5	120138	Nut Nylock 5/8-11 GR5 PLTD	20
6	120154	Washer 1" Flat USS	4
7	120216	Clamp Coulter Arm 12"	1
8	120317	Urethane Rod	8
9	120351	Rolling Basket Clevis Adjustment Mount Drawbar Harrow	2
10	121015	Bolt 1/4-20 x 1-1/2 GR5 PLTD	4
11	122650	8' Rolling Basket Flat Bar	1
12	123867	Bolt 5/8-11 x 2-1/2 GR8 YZ PLTD	8
13	124078	8' Drawbar Section Stabilizer Bar Rolling Basket Mount	1
14	124191	Ratchet Jack 20-28 Adjustable 1" Pin	1
15	124327	Coulter Harrow Rolling Basket Cushion Top Plate	1
16	124335	Coulter Harrow Rolling Basket Ear Plate	1
17	125880	Clevis Pin 1" x 3" PLTD	2
18	126032	Clevis Pin 1" x 3-1/2" PLTD	2



D

C

B

A

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GATES MANUFACTURING, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GATES MANUFACTURING, INC. IS PROHIBITED.

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL ±1/8

ANGULAR: MACH ±2 BEND ±2

TWO PLACE DECIMAL ±.01

THREE PLACE DECIMAL ±.005

THIRD ANGLE

MATERIAL

FINISH

DO NOT SCALE DRAWING

SCALE: 1:10

DRAWN

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:

NAME

DATE

Britta

1/28/2016

DESCRIPTION:

Basket Mounting Parts

SIZE

PART NUMBER:

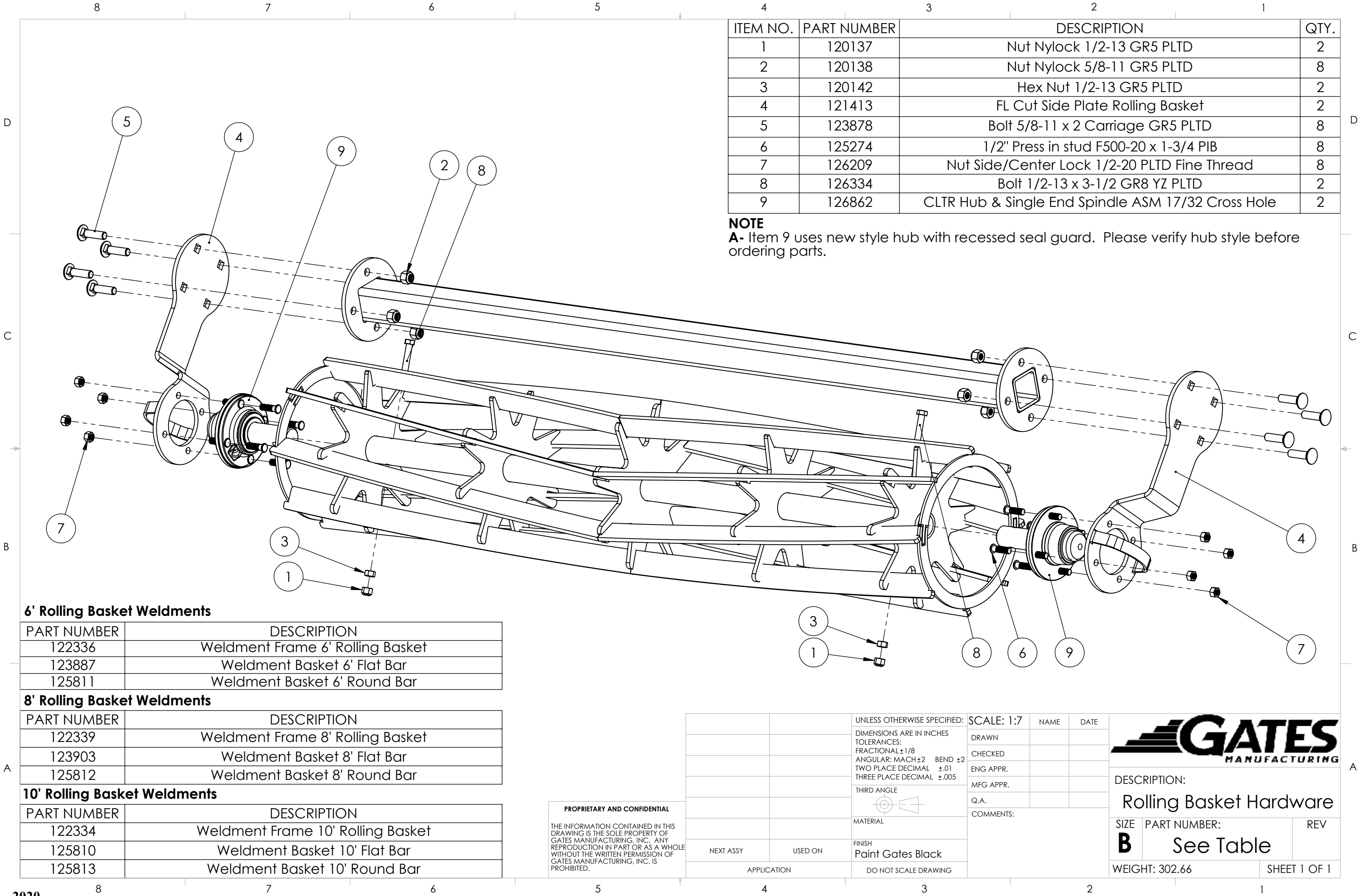
REV

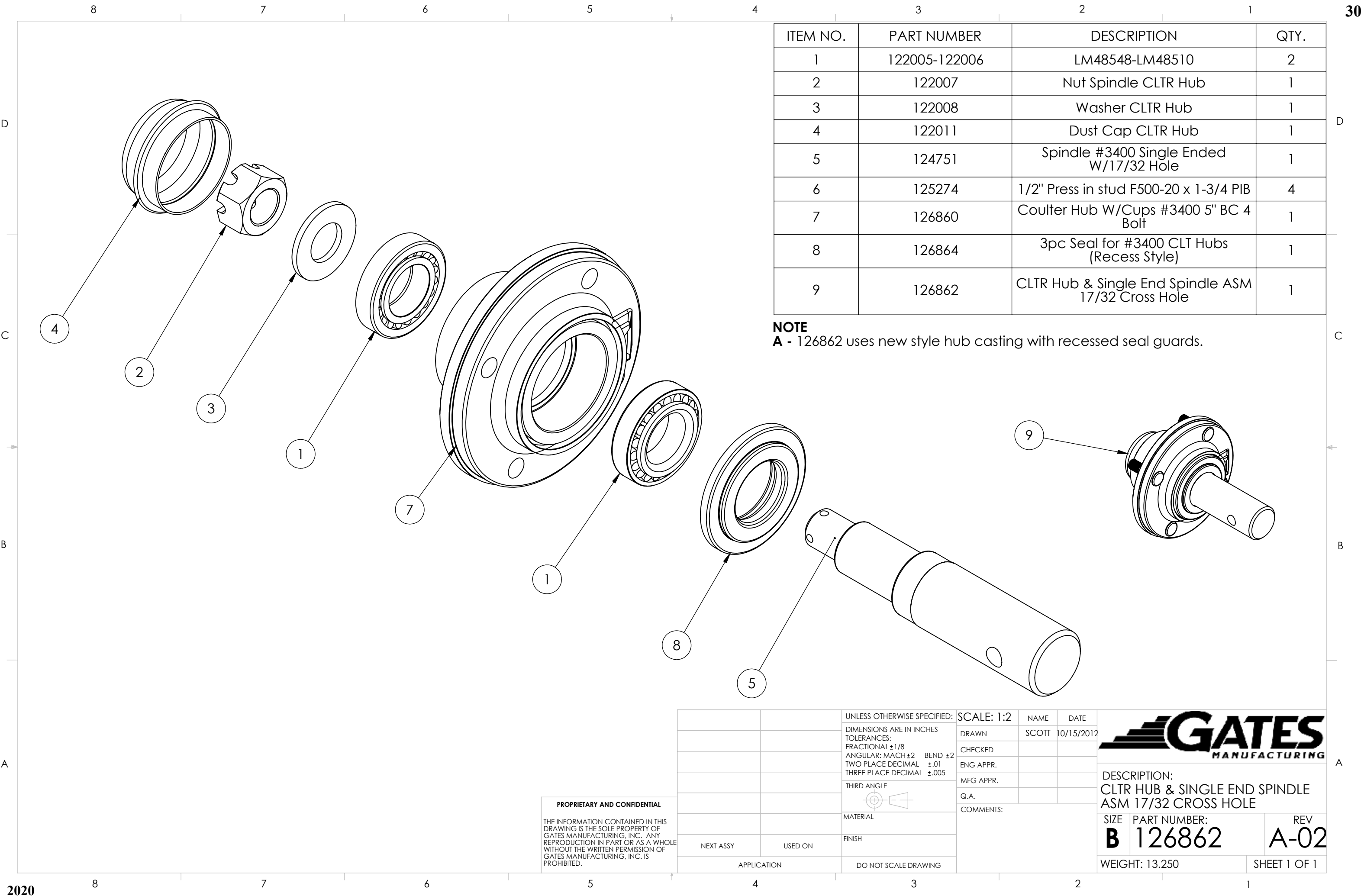
B

See Table

WEIGHT: 574.97

SHEET 1 OF 1





ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	122005-122006	LM48548-LM48510	2
2	122007	Nut Spindle CLTR Hub	1
3	122008	Washer CLTR Hub	1
4	122011	Dust Cap CLTR Hub	1
5	124751	Spindle #3400 Single Ended W/17/32 Hole	1
6	125274	1/2" Press in stud F500-20 x 1-3/4 PIB	4
7	126860	Coulter Hub W/Cups #3400 5" BC 4 Bolt	1
8	126864	3pc Seal for #3400 CLT Hubs (Recess Style)	1
9	126862	CLTR Hub & Single End Spindle ASM 17/32 Cross Hole	1

NOTE
A - 126862 uses new style hub casting with recessed seal guards.

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±1/8
ANGULAR: MACH ±2 BEND ±2
TWO PLACE DECIMAL ±.01
THREE PLACE DECIMAL ±.005
THIRD ANGLE

MATERIAL
FINISH

SCALE: 1:2
DRAWN
CHECKED
ENG APPR.
MFG APPR.
Q.A.
COMMENTS:

NAME	DATE
SCOTT	10/15/2012

DESCRIPTION:
CLTR HUB & SINGLE END SPINDLE
ASM 17/32 CROSS HOLE

SIZE	PART NUMBER:	REV
B	126862	A-02

WEIGHT: 13.250	SHEET 1 OF 1
----------------	--------------

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS
DRAWING IS THE SOLE PROPERTY OF
GATES MANUFACTURING, INC. ANY
REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF
GATES MANUFACTURING, INC. IS
PROHIBITED.

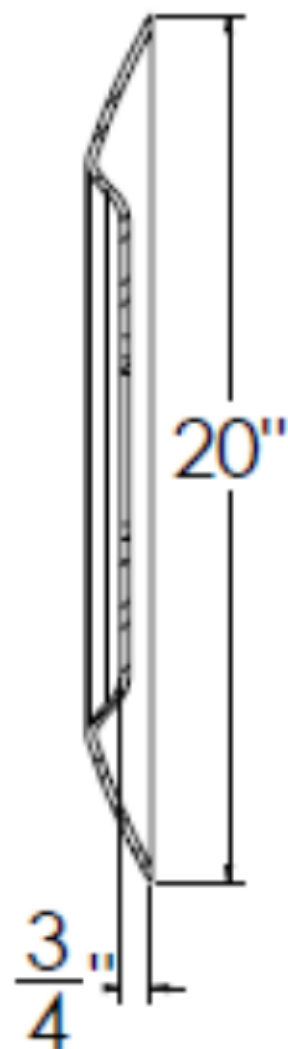
NEXT ASSY	USED ON
APPLICATION	

DO NOT SCALE DRAWING



124476 Soil Rebel™

Soil Rebel is a trademark of Ingersoll
Tillage Group

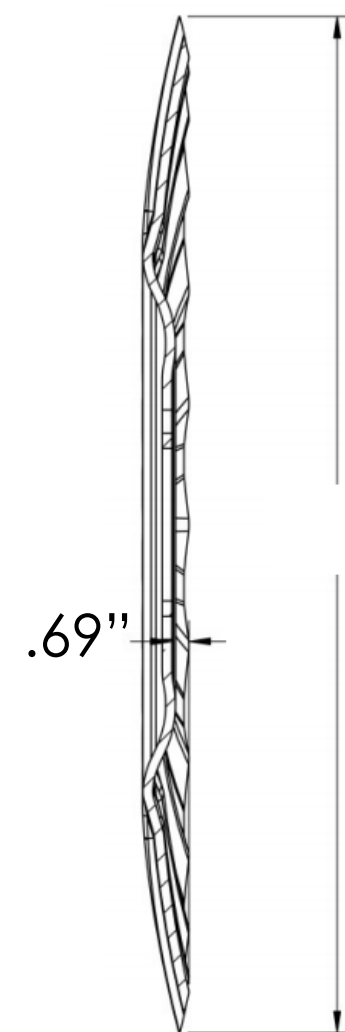


- ◊ Aggressive wave profile is ideal for sizing and mixing residue with soil
- ◊ 20" diameter
- ◊ 25 wave concave coulters
- ◊ 3/4" offset
- ◊ 5mm thick
- ◊ Shallow concavity produces:
 - ◊ High speed operation
 - ◊ Less soil smearing
 - ◊ Reduced compaction
- ◊ Ideal for shallow, high-speed vertical tillage applications



127291 SoilRazor™

SoilRazor is a trademark of Ingersoll
Tillage Group



- ◊ Saw tooth design allows for excellent residue sizing
- ◊ Self-sharpening cutting edge as blade wears
- ◊ Aggressive blade design
- ◊ Long life
- ◊ 20" diameter